ISSUED EVERY WEDNESDAY

# DRUG & CHEMICAL MARKETS

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NEW YORK, OCTOBER 1, 1919

No. 56

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### Announcement.

With this issue we are adding eight pages to Drug & Chem-ICAL Markets, and we want to take this opportunity to tell our subscribers some plans we have for improving the news and market service of this publication.

With the eight additional pages, we are changing the make-up arrangement for the further convenience of our readers and have removed the advertising cards from the center column of the quotations, and are printing these in solid pages with the facing pages devoted to the announcements of reliable firms.

We are extending our foreign service by several regular monthly market reports on conditions in the producing markets of the world by our own correspondents. These reports from authentic first hand sources give our readers exclusive information.

In order to give our readers the best thought of the day upon commercial topics affecting the chemical and drug industries, we have arranged for a series of special articles by recognized authorities on a number of important, broad subjects. Next week we shall publish an article on the foreign exchange situation by Mr. Alexander Phillips, Vice President of the Guarantee Trust Company of New York, whose management of their Paris branch has fitted him with an intimate and practical knowledge of foreign exchange problems. Other articles that will follow are: Commercial Oils, by Major Charles V. Bacon; Chemical Costs, by Hasbrouck Haynes, M. E.; American Botanical Prices, by S. P. Nickells; Manufacture of Synthetic Aromatic Chemicals, by Dr. G. F. Richmond; Losses by Fire in Chemical Plants, by Edward R. Hardy.

During the past six months more new subscribers have been added to our subscription list than during any similar period since the first establishment of the paper five years ago. During the same period the amount of advertising carried has increased 400%. We want to express our appreciation of this very tangible evidence of appreciation both of the editorial service which this paper gives and of the value of its advertising pages.

Drug and Chemical Markets
3 Park Place, New York

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A BINDER

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#### Litigation vs. Arbitration

Suits arising out of sales of chemicals are increasing rather than decreasing, and the situation which was expected to clear up with the passing of a market dominated by extraordinary war demands is worse than it was twenty months ago. It is true that many of the suits now in the courts are the result of the house cleaning which the chemical industry is doing; but this mopping up process is messy, costly, and not very efficient. Moreover, there is an alarming increase in the suits between legitimate and well established firms. It is the increase in suits of this kind with which we are particularly concerned, and since no ele-ment of deliberate fraud enters into them, it is possible to curtail them.

Careful study of a great number of complaints filed in these chemical suits reveals the fact that the great majority-probably over seventy per cent-arise out of disputes as to the terms of sale. Deliveries by the seller which do not meet the expectations of the buyer and qualities of goods that are not acceptable are the most frequent direct causes of complaint. In the former case, the element of time, affecting as it does, price, is an important consideration; while the multiplicity of grades, affecting the various uses to which chemicals are put in different industries, results in honest misunderstandings especially in the case of goods passing through second hands on the way from maker to consumer. Exact definitions of the conditions of chemical sales, particularly as to time conditions and grade conditions, would do much to remove these causes of suits. A disinterested Board of Arbitration, to pass upon disputes arising out of sales made under a standard, uniform sales contract, would reduce the appeals to the Courts greatly. Moreover, such a Board of Arbitration, composed of men familiar with the peculiar conditions of the chemical industry and its numerous, complicated commercial ramifications, would be able to render more intelligent and just decisions than any judge however honest and upright, for technical manufacturing problems and intimate market conditions have important bearing on such decisions. Furthermore, the expense and delay of legal action is proverbial, and this places a serious burden upon the industry as a whole. Finally, the number of chemical cases is an open scandal, and this continuous washing of dirty linen in public, while it may be an entertaining spectacle, is certainly not helpful to the industry's best in-

Elsewhere in this issue we publish the standard conditions of sale, shipping rules, and regulations of arbitration which have recently been adopted by the British Chemical Trade Association. We commend this interesting document to the attention of our chemical makers and chemical sellers, and since we have no organization similar to the British association, we again suggest to the Chemical Alliance that they continue the fine work done during the war by drawing up similar regulations and appointing a Board of Arbitration. This is work worthy of that body's best traditions. It is work that would mean much to the future of the American chemical industry.

#### Drugs and Banks

Before the war, the function of banks in our drug trade was simple. They were repositories for the funds of drug merchants and upon the credit established in this way, advanced them the means of financing their seasonal purchases as the various drug crops came into the world's markets. This was the straightforward accommodation of regular customers, and the borrowings of several most important factors in the trade, considering the volume of business handled, were small. Formerly, the banks entered but slightly and only indirectly in the trade in crude drugs. Today, however, they are actively and intimately connected with the importation, sale and exportation of drug products.

Three principal causes have brought about this result: the higher prices of drugs; the entrance into the drug trade of new dealers; the increase in consignment drug shipments to New York. An established house whose credit was adjusted to deal at normal prices in a drug market with a known and fairly stable demand found its ordinary resources inadequate when drugs they had bought at three, five, and ten cents advanced to forty, seventy, and ninety cents. The additional, necessary money was raised by loans from the banks secured by goods, by cases of opium, by bags of kola, by bales of buchu, and what not. Many new dealers were brought into the drug market by the high prices and prospect of extra profits. Some of these were speculators, others were established import houses who nevertheless had not previously dealt in drug products. The banks advanced both classes money against drugs in transit and in warehouse, and their loans on similar security were still further increased by the many consignment shipments that began to arrive in New York. Normal trade channels had been blocked and dealers in primary markets sought the only available market, a practice that was encouraged by the speculators and commission firms.

During the war the New York drug market expanded, and while this expansion was more apparent than real, still it was sound so long as there was the abnormal war demand and while many of our pharmaceutical makers could not import direct from primary sources. Some of this expansion we can hold, provided we maintain a steady, open drug market, supported by increased exports

of crude and manufactured drug products. The speculators will have no place in this market, and only those import firms who take pains to specialize in this field will continue to find it profitable.

Today the purely financial aspects of our drug trade are interesting. Many banks have outstanding considerable sums secured only by drugs valued at war prices. Most foreign drug centers are bursting with accumulated stocks; but our stocks of domestic drugs are low because of reduced production. Many war buyers are out of the market. Foreign exchange rates prevent many export sales. Irregular dealers are trying to squirm out of the market. The situation contains elements favorable to a sharp break in foreign drug prices and corners in domestic drug supplies. The curtailment of manufacturing activity here and the world's shortage of drug supplies will help greatly in the gradual absorption of stocks, and the influence of the banks will exert a steadying influence upon prices. That the banks will for a long time be in close contact with the drug trade is obvious, and the wisest among them will set some intelligent employees to learning the real facts about drug sources and crop seasons; about pre-war prices and normal demand; about drug uses and drug markets. The Pharmacopoeia will have a place beside Poor and Moody on the shelves of many bank libraries.

#### **BUSINESS CONDITIONS**

Without the presence of labor troubles of magnitude, a general enlargement of business might conceivably be witnessed, and that gains do appear in various instances, despite the prevailing drawbacks, is an encouraging feature. While a disposition to await downward price readjustments is still apparent in some quarters, certain commodities that were recently depressed have lately developed a steadier undertone, and Dun's list of wholesale quotations this week, for the second consecutive week, discloses more advances than recessions. If production were unrestrained, a prop would be removed from under not a few markets, but with outputs curtailed from one cause or another, price yielding is a halting process.

#### THE GERMAN COLOR QUESTION

The inclination of British dyers to buy German colors is discussed by the "London Dyer and Calico Printer," which says in a recent issue: "It must not be forgotten that our most serious textile competitor promises to be America, that America is also struggling to build up her color industry, and that the States had a fairly stiff protective barrier for imports even before the war. Dyers who are prone to complain of the present conditions should look backward and then well into the future. Surely the lesson of the war has been learned! Knowing what happened in the past, the whole question now seems to depend upon this-can we put up with the disadvantages of the immediate present in order that the color industry in this country may be firmly founded and dyes made independent, in the future, of supplies from abroad? Nobody wants another war, but, on the other hand, nobody will be venturesome enough to declare that another war will not come. For the sake of a temporary advantage, now, are we to suffer the same handicap in that eventuality as we did in the early days of the war? The dyer clamoring for cheap German colors should pause to think and remember."

### The Commercial Application of Chemistry

The Distributive Branches of the Chemical Industry Need Chemically Trained Salesmen and Purchasing Agents

W AR problems in the problems of produc-More, more was the insistent demand. Increased production and speedier pro-duction in the face of many peculiar difficulties was the universal task in the accomplishment of which trained chemists played a great part and won a more just appreciation of their services and a better understanding of their functions. In solving its production problems, under stress, the chemical industry found the true place of the technically trained men, and the distinction between the research worker, the control worker and the process worker has been well defined. The duties of these various types of chemists are now well understood, and our schools and universities will in time be able to work out curricula which will train men best fitted for the different classes of technical production activity. Distribution Now the Problem

Peace problems are now beginning to call for solution, The emphasis is passing from production problems, and it is very significant that there is a growing conviction on the part of chemical executives that more men of chemical training are needed in the purely commercial branches of the industry. This matter was touched upon briefly in a recent editorial in Drug & Chemical Markets; it

is a subject that is worthy of a more detailed consideration.

That the chemical industry, in all its many ramifications is the most technical of all the industries is an axiom. In no other industry are the processes of manufacture so multiform and so complicated, and in no other industry are the uses to which the finished products are put so various and so technical. A situation is thus naturally created which throughout all branches of the chemical industry puts a premium upon technical training. The importance of this in the productive end is fully recognized; in the distributive branches a better appreciation of the importance of technical training is growing rapidly. To the industrial application of chemistry we are going to see added its commercial application. Chemical products are made by technical experts: they will be bought and sold too by chemically trained men.

Thomas W. Lamont of J. P. Morgan & Co. and alternate Chairman of the Harvard Endowment Fund, appealed recently to bankers, business men and others to see to it that American colleges be kept up to the high standard they have attained, so that the world's need for trained men may be met. Mr. Lamont was addressing the members of the Bond Club at the organization's first monthly luncheon of the season, given at the Bankers' Club, 120 Broadway.

"Those of you who are interested in industrial manufacture," said Mr. Lamont, "would never dream of allowing the physical equipment of your plants to run down. Yet all America is allowing the equipment of its brain plants, the most important factories that could be imagined, to run down at the heel. It is for this reason that I venture to ask you all to take your share in this educational movement that means everything to the safety and happiness of our common future.

"If America is to lead, we must train our young men to be leaders. On this point, a glance at the history of our educational institutions is interesting. In the early days of the last century our college graduates usually became teachers or ministers. Then gradually our colleges began to turn out lawyers and physicians. Now, in the last two generations, our colleges have been turning out administrators on a large scale, business men, executives, and in the last few years it has become increasingly apparent that our colleges were becoming too poor to pay the salaries that they ought to pay in order to hold the best minds on their teaching forces."

Detailed, intimate, expert knowledge of the goods which he sells is the most important part of the salesman's equipment. The drummers with free cigars and smutty jokes have been replaced by men who sell service along with their goods, and the service rendered is often in the form of expert advice. Chemical salesmen, representing manufacturers with large and varied lines, as in the dye and medicinal fields, are often called upon to do missionary work in the developing of new markets for old chemicals or the introduction of new products. If expert knowledge of his goods helps the shoe salesman and the canned goods salesman and the hardware salesman, how much more must it help the salesman of chemical products.

Before the war we had developed sales forces which by the round about and not very satisfactory way of experience had picked up a superficial knowledge of the uses to which their chemical goods were put by their customers, and who were able to talk quite glibly in the jargon of trade chemistry. Among them were, of course, a smattering of men who had a real understanding of the chemistry of their goods, and it is worth remembering that the German dyestuffs trust thought it well worth their while to send all over the world salesmen trained both in chemistry and in the

language of the country they visited to instruct buyers in the proper application of their dyestuffs. The American dye industry today suffers from the misuse that has been made of their dyes, misuse that was sometimes intentional and sometimes a necessary makeshift; but which, in many cases, must have been due to lack of technically trained men.

Buyers Should Be Qualified

What holds good of the chemical salesman, and the advantage that chemical training is to him, is as true of the chemical buyer. Slight differences in grades, in percentage of various constituents, make great differences in the uses of chemicals. Misunderstandings arising out of these matters of grade and quality cause many of the suits over refused shipments of goods. The expert knowledge of chemicals in purchasing agents is a tremendous protection to the buyer, and such men are needed today not only in the chemical

industry but in other industries which are large buyers of chemical products, such as the textile, leather,

soap, paper and metal industries.

There is a real and very definite need for men of chemical technical training in the commercial side of the chemical industry, and as yet there has been no effort on the part of our schools and colleges to fill this demand. A few men who have had more or less chemistry in college have become salesmen and buyers of chemicals; but it has been a purely haphazard thing, and such a source of supply cannot begin to fill a demand that is becoming more and more insistent, the filling of which will be an important step forward ir our chemical development.

Course in Commercial Chemistry

It is obvious at the very outset that a course in commercial chemistry would appeal to men who would not be temperamentally inclined to chemistry as a science. The men needed for this work are men with the commercial instinct,-the business inclination well developed -and these men are seldom those who make either the best teachers of chemistry or research workers. But the commercial instinct is not of itself to be condemned, and courses of this kind would be attractive to many students who after a year of chemistry would normally drop out of the ken of the Chemistry Department entirely. The second thing that is plain is that these men would require only a moderate amount of training in pure chemistry. A fair medium would be two years of lectures and laboratory work.

Commercial chemistry courses should build upon a broad foundation of chemistry, a good working knowledge of chemical industrial processes and the industrial and mercantile uses to which various chemical products are put. It might well contain a series of lectures upon chemical markets-the way in which chemicals are sold, containers, shipping, sales contracts, etc. Crude drugs, essential oils, vegetable oils are closely allied products about which the student should know something.

Courses on commercial chemistry, as such, should be supplemented by such commercial courses as most of the larger universities are now offering on banking and finance, applied economics, commercial law, and,

in some cases, upon actual salesmanship.

#### TAKING A CHEMICAL PARTNER

The practical importance of chemistry in modern business was dwelt upon recently at the September meeting of the American Chemical Society in a paper by Dr. Robert P. Fischelis, entitled "The Chemical Laboratory as a Publicity Factor." American industries are convinced, said he, that the chemist and the chemical laboratory are valuable assets, that they have enabled the industries to develop new products, make standard products more economically, find outlets for by-products and eliminate waste.

Department stores and mail-order houses are now installing chemical laboratories as part of their organization or are retaining chemists by the year. One large drygoods firm in St. Paul has a complete laboratory in full view of its customers where tests of all kinds of merchandise are conducted. The exact kind of dye in fabrics, the fibres which they contain, whether cotton or wool or silk, or mixtures of various threads can thus be determined to the satisfaction

of both merchant and consumer.

By having the chemist continually checking up on the quality of products, large houses which sell merchandise by parcel post over wide areas can describe exactly everything enumerated in their catalogues. Thus they do not guarantee articles until they have had them thoroughly examined.

#### **EXHIBITS AT SAFETY CONGRESS**

Safety exhibits from Japan, England and Canada, in addition to commercial and non-commercial exhibits from all parts of the United States, are being shown this week at Cleveland, Ohio, in connection with the Eighth Annual Congress of the National Safety Council. Among the exhibits is one brought to the general office of the National Safety Council at Chicago recently by Baron K. Uchida, former governor of Formosa, Japan, and Vice-Minister of Communications of that country, and a member of the National Safety Council of America. The exhibit includes pamphlets, posters, bulletins, flags and other advertising matter used during Safety Week, which was conducted in Tokio in June of this year almost identically along the lines of the Cleveland Safety Week. Baron Uchida told C. W. Price, general manager of the National Safety Council, that the idea for Tokio's Safety Week came from the Council's report of the St. Louis Safety Week of last year. It is significant that although this was the first attempt at organized safety work in Japan, Tokio's Safety Week proved to be a "No Accident Week" in fact as well as in name. Tokio has a population of approximately 3,000,000 persons.

The British exhibit at Cleveland defines the safety movement in the words of an American: "This is what 'Safety First,' or being careful means, . . . and the end is, that the workman shall live to enjoy the fruits of his labor; that his mother shall have the support of his arms in her age; that his wife shall not prematurely become a widow or his children fatherless; that cripples and helpless wrecks, who were once strong men, shall no longer be a by-product of

The opening session of the Congress was devoted to addresses by Cyrus McCormick, Jr., works manager of the International Harvester Company, F. L. Feuerbach, factory manager, William Demuth & Company, Richmond Hill, N. Y., E. D. Tolsted, Independence Bureau, Philadelphia, and Matthew Woll of the American Federation of Labor, Washington, D. C.

#### SEEK PLATINUM CONCESSION IN ALASKA (Special to DRUG AND CHEMICAL MARKETS)

Washington, D. C., Sept. 30.-Congressman O'Connell, of New York, has introduced a bill in the House of Representatives providing for the incorporation by L. R. Beckley and his associates of the United States Platinum Corporation, with capital stock of \$30,000,000. The object of the corporation is to secure a concession from the Government of land areas in Alaska containing platinum sands, and to pay for such privileges, as a royalty or subsidy, one eighth of the net products obtained from the working of the concession. The operation would be under the jurisdiction of the Treasury Department.

The measure provides that there shall be selected and appointed by Congress five commissioners, to be known as United States Government Commissioners of Platinum and its Allied Industries, whose term of office would be one, two, three, four and five years, respectively, and that the sum of \$100,000 shall be set aside from the gross receipts of the corporation, or as much thereof as may be necessary, to maintain and support the commission, under rules and regulations mutually formulated by the commissioner and the

corporation.

Exports of iodine from Antofagasta, Chile, during the month of July amounted to about 11,700 pounds. Shipments of nitrate of soda amounted to 5,379,968 pounds. Shipments of bismuth amounted to 111,725 pounds,-all for the United States.

### Standardized Sales and Arbitration

#### The Conditions of Sale and Shipping and Arbitration Rules of the British Chemical Trade Association

These rules governing the general

conditions of sales and shipping con-

tracts have been adopted by the British

Chemical Trade Association, of which

S. J. C. Mason is the honorary secre-

tary, and are uniformly in force in the standard contracts of leading British

manufacturers and brokers. Disputes

that arise out of sales made under this

standardized contract are referred to

the association for arbitration, under

the rules which are also printed here.

These rules and regulations, which we

understand have met with hearty ap-

proval and support in England, are par-

ticularly interesting in that they could

easily be the basis upon which similar

standardization of sales and shipping

contracts might be effected here and a

similar method of arbitrating disputes

enacted under auspices of the Chemical

THE rules of the British Chemical Trade Association cover not only the conditions under which sales shall be made and the terms of shipping contracts, but provide also for arbitration of disputes. Here are the rules and regulations in full:

General—1. All sales stated to be made subject to the conditions of the British Chemical Trade Association, or when other words to the like effect are used, shall be considered as subject to these conditions.

Weights—2. Unless other-wise stated at the time of sale, goods sold by weight shall be taken at works, wharf, warehouse, store, or quay weights if despatched from works, wharf, warehouse, store, or quay for delivery elsewhere in the United Kingdom, or if sold ex works, wharf, warehouse, store, or quay.

Time of Delivery—3. Prompt delivery shall mean delivery on the date of contract, or on any of the following fourteen days. Spot delivery shall mean delivery within 24 hours from sale.

Rent—4. All goods sold ex works, wharf, warehouse, store, or quay shall remain, if required, 7 days rent free to the buyer from date of delivery, unless otherwise stipulated.

Quantity—5. When used in reference to quantity, the term "about" shall mean within five

per cent. over or under the quantity specified.

Tenders and Declarations—6. In the case of contracts for future delivery during specified periods, tenders or declarations must be made on or before the last business day available according to the contract.

Bankruptcy—7. If, before the completion of any

Alliance.

sale, any party to the contract shall suspend payment, or become bankrupt, or insolvent, or become lunatic or insane, or die without leaving executors or others willing and able to take over his liabilities under the contract, such contract shall be forthwith closed at the market price then current for similar goods for delivery at the time named in the contract; such market price shall be ascertained either by re-purchase or re-sale, or by arbitration, at the option of the other party to the contract, and the difference between the contract price and the price so ascertained shall be the measure of damages payable by or to either party under such contract, and such damages shall, if ascertained by re-purchase or re-sale, be payable on the prompt day following such re-purchase or re-sale, or, if the question is referred to arbitration, be payable on such terms, and at such period or periods, not being later than the date fixed for completion of the contract, as the Arbitrators shall determine.

Default—8. In the event of nonfulfilment of contract on part of buyer or seller, except for reasons of Force Majeure, the other party shall have the right either to cancel the contract or close the same at market price then current for similar goods for delivery at the time of such default, and the difference between contract price and the price so ascertained, shall be the measure of damages payable by the defaulting party to such contract, and such damages shall be payable on the prompt day following the date of the closing of the contract.

Import Duty-9. Unless otherwise stated, import duty, if any, to be paid by buyers. On all goods sold

duty paid, any increase in duty before delivery to be for buyers' account.

Replacement of Goods — 10. The seller is not bound to replace specific goods sold, in case of loss through accident by sea, rail, fire, explosions, or consequences of war.

11. Any dispute arising out of a contract shall be determined by arbitration in London in accordance with the rules of the association.

#### Rules Governing Shipping Contracts

Definition—1. (a) The term "f.a.s." shall be taken to mean free alongside steamer at port of shipment. (b) The term "f.o.b." shall be taken to mean free on board steamer at port of shipment. (c) The term "c & f." shall be taken to mean that the freight to the port of discharge shall be paid by the

shipper, or the amount of freight payable on arrival of the vessel shall be deducted from the invoice for the goods. (d) The term "c.i.f." shall be taken to mean that the Marine Insurance shall be paid by the seller, and the freight either shall be prepaid or deducted from the amount of the invoice.

2. The buyer's risk commences from the date of the bill of lading, provided Insurance has been covered according to the conditions of sale.

Insurance—3. Insurance to be effected under f.p.a. policy, unless otherwise expressly stipulated at the time of sale, for the net invoice value of the goods, with five per cent. added, any amount over such five per cent. to be for sellers' benefit in case of loss.

Weight-4. Goods sold by weight to be taken at shipping weights unless otherwise stated.

Ship's Name—5. Ship's name (unless specially named in the contract) shall be declared to the buyer within 24 hours of the receipt of the same by seller, such declaration to be made in writing, or by telegram.

Customs—6. On f.o.b. contracts, and f.a.s. British ports customs' entry, to be passed by buyers, port dues, for sellers account on f.o.b. contracts, for buyers account on f.a.s. contracts.

Time of Shipment—7. Prompt shipment shall mean shipment on the date of the contract, or on any of the following fourteen days. Immediate shipment shall

mean shipment on the date of the contract, or on any of the following seven days.

Delivery—8. On f.o.b. and f.a.s. contracts, buyers shall have the option of taking delivery in store, wharf, or warehouse at shipping port. Instructions shall be given by buyers fourteen days before contract time of delivery (except on contracts for prompt and immediate shipments, for which buyers shall give immediate instructions), otherwise seller has the right to deliver into store, wharf, or warehouse at shipping port to complete his contract. Any difference in charges, whether more or less, incurred by seller delivering into store, wharf, or warehouse to be for buyers' account.

**Proof of Delivery**—9. The bill of lading to be considered proof of the date of shipment in the absence of evidence to the contrary.

10. No receipt for goods to be shipped on board a vessel shall be considered a bill of lading within the meaning of the contract.

#### Rules of Arbitration

1. Any dispute arising out of a contract shall be referred to arbitration in London, each party appointing one arbitrator, who shall be a person engaged in the chemical and/or allied trades, and such arbitrators shall have the power to appoint an umpire, who shall be a person engaged in the chemical and/or allied trades, whose decision in case of disagreement is to be final in the absence of an appeal.

2. In the event of one of the parties refusing to appoint an arbitrator, or neglecting to do so for seven days after notice in writing of such an appointment by the other (such notice to be delivered at the usual place of business of the party so omitting to appoint) or in case the arbitrators shall not within fourteen days (or such extended time as may be agreed to between the parties) after appointment agree to an award, or appoint an umpire, or in case after the appointment of such arbitrators or umpire, they or he or any of them shall die, or refuse to act, or neglect to act, or become incapable of acting and the party or parties with whom their or his appointment originally rested, shall omit to appoint a substitute within three days after notice of such death, or refusal, or incapacity, then upon application by either of the disputing parties, and provided the applicant at the same time pays to the Secretary of the British Chemical Trade Association the sum of two guineas, the General Committee shall appoint an arbitrator or arbitrators or umpire to fill the vacancy or vacancies so arising. Any member of the Committee who or whose firm has any interest in the matter in dispute, shall not vote on the question of the appointment of arbitrators.

3. In the event of one party refusing or neglecting to attend before the arbitration after due notice in writing of the arbitrators to meet, then the arbitrators may proceed ex parte, and the absence of any such party shall not bar the enquiry or prevent an award being made.

4. Every award shall be in duplicate on an official form to be supplied by the association, and the arbitrators or umpire shall have power to award the costs of and connected with the reference, and may assess the same at a fixed sum if they or he shall think fit, and shall decide the amount of the arbitration fees, and by whom they shall be paid.

5. The submission to refer, effected by these conditions, shall not be revocable by either party, and for the purpose of enforcing any award, either original or on appeal, by attachment or otherwise, such an award,

these conditions and any contract referring thereto, and also the memorandum of the appointment of the arbitrators, may be made a rule of any of the divisions of His Majesty's High Court of Justice in England or in Ireland, or an order of the Court of Sessions in Scotland.

Evidence—6. The arbitrators, umpire and appeal committee may in any arbitration or matter pending before them to which these rules apply, accept such evidence of any fact, whether in dispute or not, as they may in their absolute discretion deem proper, in each individual case, and they shall not be bound by the strict rules of evidence applying to proceedings in courts of law.

Appeal—7. In case either party shall be dissatisfied with an award of arbitrators or umpire, as the case may be, a right of appeal shall lie to the Appeal Committee of the association, provided notice in writing claiming such appeal be given to the secretary of the association not later than 12 noon on the seventh business day after the award has been received by the appellant, and provided he has paid the fee of investigation the sum following: Members—Fifteen guineas; Non-Members—Twenty guineas.

8. The secretary shall, upon receipt of notice claiming an appeal, and payment of the proper fee, convene the next Board of Appeal on the Rota, to be held as soon as possible, but not later than on the seventh business day from receipt of such notice and payment, and shall at the same time give written notice thereof to every party, including the original arbitrators.

9. No party shall have the right to be heard on appeal until he has paid the fees and other arbitration expenses payable by him on the award in respect of which the appeal is made.

10. In the event of one party refusing or neglecting to attend before the Board of Appeal after due notice in writing of the Board of Appeal to meet, then the Foard of Appeal may proceed ex parte, and the absence of any such party shall not bar the enquiry or revent an award being made.

11. The Board of Appeal shall have power to award by and to whom, and in what manner, part or proportion, the expense of any reference appeal and award and all monies paid and payable under these conditions are to be borne and paid.

12. In the event of an appeal being withdrawn after the Board of Appeal has been summoned, the Comnittee of Appeal shall have absolute discretion to decide whether or not the appeal fees or any part thereof shall be returned to the appellant.

13. Every award of the Board of Appeal shall be final and binding upon every party, both in respect to the matters in dispute and all expenses of the reference, appeal and awards.

14. After award no complaint or objection made as to the constitution or powers of the Board of Appeal shall be valid.

15. One-fifth of the fees in respect of such an appeal shall go to the association, and the balance equally among those members who have sat and voted upon the appeal.

Irving A. Keene, of the Keene Co., manufacturing chemists, London, and Dr. Jules Bebie, of the Monsanto Chemical Works, St. Louis, are studying German methods of production and the export trade in dyes and chemicals, as a committee representing the American Chamber of Commerce of London, England. They will remain two months.

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#### GIBBS MEDAL FOR PROF. W. A. NOYES

The Willard Gibbs gold medal, the highest award in the world for chemical research achievement, was presented last week in Chicago to Prof. William A. Noyes, Director of the Department of Chemistry at the University of Illinois, for special work for the Government performed during the war.

The presentation was made following a reception and dinner to Professor Noyes by more than four hundred of the country's leading chemists and educators, who were in attendance at the Fifth National Exposition of Chemical Industries being held at the Coliseum that week. The presentation speech was made by Dr. William H. Nichols of New York, President of the American Chemical Society, following a brief history of the achievements of Dr. Noves by L. V. Redman of Chicago.

Dr. Harry Pratt Judson, President of the University of Chicago; Dr. W. E. Stone, President of Purdue University; Dr. Ira Remsen, past President of Johns Hopkins University; Dr. David Kinley, acting President of the University of Illinois, and Harry H. Merrick, President of the Chicago Association of Com-

merce, gave short talks.

#### TARIFF COMMISSION AND DYE LICENSES

While the debate on the Longworth bill was in progress in the House, Joseph W. Fordney, chairman of the Ways and Means Committee, held a consultation with Thomas Walker Page, the acting head of the Tariff Commission. Mr. Page told Mr. Fordney that under the law the commission had only an advisory capacity and could not undertake legally to conduct an administrative bureau. Mr. Fordney deplored any attempt to put the license plan within the reach of political influence. "I have just had a talk." said Mr. Fordney, "with a member of the Tariff Commission and he says that the commission has no power for any but research work, and if we want to destroy the Tariff Board we should go ahead and pass the pending amendment." The amendment was passed by a vote of 125 to 34, and the question comes up, "What will the Tariff Commission do, should the bill be passed by the Senate in its present form?"

The City Attorney of Berkeley, Cal., has been instructed to bring suit against Procter & Gamble, to collect \$4,245 taxes levied against a cargo of copra stored in Berkeley warehouses from November of last year to April of this year, the copra being valued at almost \$500,000. The concern refused to pay the tax on the ground that the cargo was in transit.

The reappointment of Commissioner Huston Thompson of the Federal Trade Commission to succeed himself in office for a further term of seven years has been confirmed by the Senate. Mr. Thompson was originally appointed last spring to fill out the unexpired term of former Commissioner William J. Harris, Georgia, resigned.

Drug firms employed 3 per cent less people in July, but 7 per cent more people were employed on miscellaneous chemical products, says the New York State Industrial Commission. Employment in paints, varnishes and aniline dyes was about 2 per cent higher than in June. The oil and soap industry workers increased 3 per cent during the month. Compared with last year, employment in the drug industry is 20 per cent lower, and in the oil industry employment is 14 per cent lower. But 13 per cent more workers were employed in miscellaneous chemical products, and 4 per cent more in paints, dyes and colors.

#### CHEMISTRY TO BENEFIT BY \$10,000,000 FUND FOR INSTITUTE OF TECHNOLOGY

Research Laboratories Will Increase Facilities for Industrial Work for Large Plants—Mysterious Mr. Smith to Contribute \$4,000,000—Necessity for

The campaign to establish an endowment fund of \$10,000,000 for the Massachusetts Institute of Technology is in full swing in New York where the Endowment Fund Committee has established headquarters at 120 Broadway and is receiving subscriptions daily. The members of the committee are Charles Hayden, Edmund Hayes, Otto H. Kahn, Richard C. Maclaurin, Everett Morss, Charles A. Stone, Theodore N. Vail and Coleman du Pont, who is chairman.

A mysterious "Mr. Smith," who has befriended the Institute before to the extent of \$7,000,000, has come forward with a promise of \$4,000,000 provided another \$4,000,000 is pledged before the first of the year. "Mr. Smith" is neither a Technology graduate nor a Massachusetts man. He is said to be an industrial leader of large wealth and a firm believer in the sort of education the Institute provides. Great interest is being manifested in his identity which Dr. Richard Maclaurin, president of the Institute, promises to reveal at the culmination of the campaign.

The necessity for the fund was explained by a mem-

ber of the committee who said:

Professors' salaries are going up all over the country in these days of the high cost of living, and where they do not go up inferior teachers obtain inferior results. If the Massachusetts Institute of Technology is to continue its splendid service to the chemical industries it must have adequate financial support. Tuition fees alone will never provide this support. According to figures furnished by the Institute it costs \$500 to provide the year's education for which the student will next year pay \$300. Previously the tuition fee was always \$250, and even this slight increase will probably keep away some ambitious boys who want a technical education but must rely on their own resources to secure it. It is, therefore, out of the question to raise the tuition fee again. The logical way to meet the situation, the alumni and friends of the Institute believe, is to raise an unrestricted Endowment Fund."

Interesting work in co-operative industrial chemistry is being done in the chemical research laboratories and is developing rapidly. Here the Institute employs its own chemists who experiment on problems for industrial concerns. The amount charged each company is somewhat more than the salary of the man employed, the surplus going for overhead expenses and the solving of chemical problems of general interest, the results of which are published for the interest of the public. Included among the concerns for whom work is now being done are the several du Pont de Nemours Companies, the Vacuum Oil Co., the National Tube Co., the National Electrolytic Co. and the Clinton Metallic Paint Co.

The Institute laboratories of chemistry include eighteen instructional laboratories for undergraduate classes, nine research laboratories, eleven special laboratories and thirty-four private laboratories and offices, with the necessary accompaniment of balance rooms, combustion rooms, supply and storage rooms. The total number of student desks is 1,390. Each branch of chemistry has its own laboratories.

Frank A. Burr is suing the Aetna Explosives Co. for \$161,947.69 under a contract by which the company agreed to employ him for five years as general sales manager.

#### Pacific Coast Notes

The California Mustard Growers' Association has been formed at Lompoc, Cal., the members including the principal growers of mustard in the State.

The Anglo California Aniline Corporation, which recently opened a plant at Redwood City, Cal., has purchased three acres of land adjoining for the purpose of enlarging the factory.

H. W. Bodwell and H. B. Bodwell have returned to San Francisco from active service with the United States Government and have resumed their exporting business at 255 California Street under the firm name of Bodwell Bros.

Charles S. Ash, of the chemical engineering firm of Gould & Ash, 216 Pine Street, San Francisco, has returned from a business trip to the South Seas, where he investigated the problems connected with the manufacture of by-products of copra.

A convention of managers of the Pacific Coast branches of the National Carbon Company was held at San Francisco during the third week of September, the gathering being attended by T. H. Jordan and J. M. Barker, of Seattle; A. R. Miller and H. B. Du-Gas, Portland, Ore.; G. C. Maudslay and Ellis Udell, Los Angeles; H. J. Martin and H. M. Bentley, Salt Lake City; and A. R. Slutor, Great Falls, Mont.

Eight thousand tons of graphite ore was received at San Francisco recently on the Shipping Board steamship West Cajoot consigned to a local oil refinery to be ground up for a grease compound. While being handled there a laborer detected indications of gold, and samples of the ore were sent to an assay office. It was discovered that each ton contained more than \$100 of gold. According to Struthers & Dixon, to whom the cargo was consigned, the ore was mined far in the interior of China, where there is an immense deposit, and floated down river to the coast. Owners of stocks of Chinese graphite in this country have been notified to examine their holdings.

Imports at San Francisco during the week ending Sept. 20 included the following: From Calcutta and Manila to the Pacific Mail S. S. Co., on the liner Colusa, coconut oil, 1,039 tons, shellac 930 cases, tapioca 2,270 packages and gum 265 packages; from Oriental ports on the Shinyo Maru No. 2, vegetable oil 11,843 cases, castor oil 1,000 cases, graphite 120 barrels, hemp seed 200 bags, hemp seed oil 495 barrels, linseed oil 3,500 cases, linseed cake 2,800 bags, peanut oil 27,000 cases; from Hongkong, on the steamer Sieyo Maru, nitrate of soda, 85,085 bags; from Hongkong, on the steamer Koyo Maru, cassia 100 bales; linseed 2,098 packages, copra 250 bags; from Mexican ports on the steamer Northland, glycerin 5 drums; from Tonga Island, 700 tons of copra for Burns, Philip & Co., and 503 tons of copra from Jaluit for the American Trading Company.

The Harvard Endowment Fund Committee announce that the first day of the drive in New York City netted \$343,250. The campaign, which is to raise a minimum of \$15,250,000 to meet the needs of the university, is being carried on by 4,000 men.

Bequests of \$100,000 each to Yale and Colgate Universities are contained in the will of Richard M. Colgate, soap manufacturer, late of West Orange, who died Sept. 17. His will has been filed for probate in the Surrogate's office at Newark, N. J.

#### SEIZURE OF H. A. METZ'S PROPERTIES

(Special to DRUG AND CHEMICAL MARKETS)

Washington, Oct. 1.—During the debate on the Longworth bill in the House on Friday, Representative J. Hampton Moore announced that Alien Property Custodian Francis T. Garvan had within the past forty-eight hours seized two properties belonging to Herman A. Metz, dye manufacturer and importer. The seizure was made on the ground that the properties were enemy owned. Mr. Moore denounced the action as unwarranted and arbitrary. Congressman Green of Iowa, a member of the Ways and Means Committee, explained that Mr. Metz had been successful in sequestering enemy owned properties, and that was why the seizure had been made.

The action of the Alien Property Custodian in demanding the stock of the H. A. Metz Laboratories, Inc., and of the Consolidated Color and Chemical Company, according to a statement to the Washington bureau of Drug And Chemical Markets by Francis P. Garvan, came only after an extended investigation of the case and following hearings granted to Mr. Metz.

"We had decided to demand a long time ago, and did demand, the stock of these companies," said Mr. Garvan. "At their request we held up the enforcement of the demand until we heard the objections that had been raised to this action, and until we made a fuller examination. At the conclusion of the hearing we decided we were right in the first place and that the stock was enemy owned. Mr. Metz is going to object to the seizure and of course, a law suit is impending. I would not care to hurt the business of Mr. Metz. We would not wilfully hurt any business. We want to encourage the American color and chemical industry. Mr. Metz contends that we have no right to take the stock in question, while we claim it is enemy owned."

It was further stated that Mr. Metz undoubtedly has some real interest in these two businesses, but that the trouble is the enemy interest and his own are so mixed up it would require a hearing in court to decide where the line is. If it is found this stock is enemy owned, it will be held in this country, Mr. Garvan declared, and it will be possible for Mr. Metz himself to secure entire control of the stock. The Alien Property Custodian declares he is not proceeding against Mr. Metz personally, only against the companies. The enemy interest is claimed to be that of Farbwerke Vorm. Meister, Lucius and Bruening, of Hoechst, on the Main, Germany.

Three bids were submitted recently for the purchase of the Government-built powder plant city of Nitro, W. Va. The highest was \$5,800,000. The city cost the Government \$70,000,000. The bidders were: Harris Bros. & Co., New York, \$5,800,000; New Jersey Machinery Exchange, Newark, Theodore Friedeberg & John Eickeley, Jr., & Co., Pittsburgh, joint bidders, \$4,312,500. Du Pont Chemical Company, Wilmington, \$2,508,750.

E. T. Takamine, of the Takamine Industrial Co., who was sued by Bush, Beach & Gent for \$160,000 damages, has applied to the Supreme Court for an order requiring Bush, Beach & Gent to furnish a larger bond, as an attachment has been levied on defendant's bank account and property.

The National City Bank has applied to the Supreme Court for an order for the appointment of a commission to go to Italy to take testimony in a suit against the Partola Manufacturing Co. for \$4,000 said to have been overpaid on a shipment of caustic acid to Genoa. The Partola company opposes the appointment of a commission.

### New Form Contract for Factory Building

Co-operation of Owner, Architect and Builder for a Better Structure, Greater Speed, and Security Against Loss

By A. E. WELLS, President Wells Brothers Construction Co., Chicago

F a half dozen street urchins are caught by a burly representative of the law while engaged in the pastime of shooting craps, the law against gambling Law makers have recognized that gambling is an unnecessary evil and have, so far as possible, put a stop to it. Yet an owner and a contractor can gamble with a million times the stake of the street urchins without fear of the law, and it is done constantly under the guise of the lump-sum contract. For under its terms the contractor agrees that for a certain sum of money he will guarantee the owner against all the unknown conditions involved in putting up a structure. Whether he makes his figured profit or whether he loses so heavily as to be put out of business rests partly on his ability to figure costs but largely on his luck in failing to meet conditions which would increase costs.

Both parties to this contract stand to gain or lose. If the job costs 20 per cent more than estimated, the owner gains to the other's loss. If conditions make considerable saving possible, then the contractor gains to the owner's loss. Many contractors who in times past have built extensively in your field are no longer operating. Others have taken their place. Perhaps the majority of the missing firms are those who were expected not only to build according to specifications and within the time limit, but to gamble that their costs would fall within a fixed contract price. Gambling against variables,-such as the forces of nature and the conditions of labor,-they lost. In many cases their failure involved an added investment on the part of the owner or possibly the surety company. It is certain that no one gained through the failure.

The contractor is an expert retained to assemble certain materials into a finished structure. The question being asked today is, "Should the contractor insure the owner that his structure will not exceed a definite contract price?" In competitive bidding the cost of this insurance is paid generally by the low bidder out of profits or, as frequently happens, out of his capital, for the reason that he is more likely to get the contract as he scales down his allowance for contingencies. In fact the man whose bid includes a safe allowance for insurance against higher costs cannot expect to obtain work under the competitive bidding system. The inevitable result is the bankruptcy of many contractors and an additional cost to the owner or the surety company to complete the unfinished contract. This situation has come to such a point that surety companies are refusing to write surety bonds on fixed price contracts except under specially favorable conditions and frequently recommend to owners the cost-plus-a-fixed-fee contract.



A. E. WELLS

But from the owner's standpoint is it not preferable to know in advance what a certain project will cost? It is true that a careful estimate is due him. It should be made by a reliable contractor and checked by owner's architect and engineer. Such a figure should be more satisfactory than a competitive bid which does not necessarily show the cost of the building but only what some contractor is willing to gamble is the cost of the job.

An issue of bonds for an office building or other structure can as well be based upon a careful preliminary estimate in either case. It can only run below the estimate under the cost-plus-fixed-fee plan. Is not the owner entitled to the possible saving? Additional financing may be an unfortunate necessity, but why should the contractor be asked to underwrite the accident of greater cost?

At the Chicago meeting of the Associated General Contractors of America this topic was discussed, and Brigadier-General R. C. Marshall, Jr., chief of the construction division of the U. S. Wær Department, pointed out the fault of the usual pre-war basis of contract. He showed the impossibility on recent War Department work of asking for competitive bids, because speed was the essence and detailed plans and specifications were never complete at the time when construction must start. On such work it was, therefore, out of the question for a contractor to bid on a flat contract-price basis. It would not have been fair to either side. As a result, there was developed a form of contract known as the cost-plus-sliding-scale-fee contract.

General Marshall said that early in the spring of 1918, the programme of work before the construction division was so extensive that it seemed advisable to have the merits of this form of contract again passed upon and a committee of eminent business men unqualifiedly endorsed this form of contract. In General Marshall's own words at the convention of general contractors:

"No contractor should be called upon nor permitted to undertake the performance of any contract that within the four corners of the paper upon which it appears is, or may be written the financial bankruptcy of the contractor. It is unjust, it is inequitable, it is uneconomic. The great lesson of this war on the subject of the relationship between the contractor and the owner is the cost-plus contract. This represents the only equitable basis upon which a contractor may perform constructive and economic services for the owner. It is the only form of contract which affords protection to both parties. To me all the energies, the thought and the experience of this country within its own continental lines during the past year and

one-half of this world struggle shall have been in vain unless out of it shall grow, as a permanent institution, solidifying the economic relationship between the contractor and owner, the cost-plus contract."

#### Money Tied Up During Building

Money tied up during construction earns nothing until the building is ready for occupancy, and the interest often amounts to a considerable sum. When we have opportunity to work with the owner, architect and engineer from the very inception of plans and when we begin foundations as soon as the general contour of the building and equipment are determined upon, we are able materially to cut down the period during which the owner's capital is unproductive. Under the lump-sum contract it is necessary that the plans be complete before bids are taken, which may delay occupancy for months, and without occupancy a building investment is poor as a dividend producer.

The cost-plus-fixed-fee basis has been adopted for the major manufacturing and merchandising operations. Automobile makers do not gamble with a fixed price but from season to season vary their selling price according as costs rise or fall. There is less of general price advertising than before the war, and now many standard articles of commerce, once fixed as to price, are today on a new basis and tomorrow may be higher or lower according as costs dictate. Unquestionably the contractor is called in because he is an expert in building and not to absorb the risk entailed in the lump-sum contract. If it is not the purpose of the owner to buy price insurance along with his building, then cost-plus-fixed-fee is a better basis.

#### PAINT ASSOCIATION FAVORS TARIFF

Richard Moore, of Benjamin Moore & Co., St. Louis, was elected president of the National Paint. Oil and Varnish Association at the meeting at White Sulphur Springs, W. Va., last week. St. Louis was chosen as the place of meeting next year. Five vicepresidents were elected, one for each section of the country, as follows: Eastern, John E. Hatt, of the Du Pont Co., Wilmington, Del.; Southern, R. M. McC. Bullington, of Richmond: Western, S. Marshall Evans, of the Eagle Pitcher Lead Co., Chicago; Pacific Coast, J. B. Keister, of National Lead Co., San Francisco; Canada, T. F. Monypenny, Toronto; treasurer, R. S. Walker, of the Thiebault & Walker Co., of New York. A board of directors was also appointed, one from each of the thirty-three clubs in the association.

Eugene Merz, of Heller & Merz, New York, pointed out that more than \$3,000,000,000 worth of American manufactured products had been dependent on Germany for dyes and that it is not possible to overrate the economic importance of the coal-ter products in this country.

The association approved the Longworth bill and indorsed the system of specific rates of duty in future tariff legislation in preference to ad valorem rates wherever such rates can be applied.

#### INCREASE IN USE OF DRUGS

#### (Special to DRUG AND CHEMICAL MARKETS)

Milwaukee, Wis., Sept. 30.—With the advent of prohibition, Federal drug tax receipts in the eastern district of Wisconsin have risen from \$2,554 in January to August, 1918, to \$93,333 during the same period this year. This shows an increase of over 3,600 per cent, according to reports of Paul A. Hemmy, assistant collector of internal revenue.

#### JOSEPH H. CHOATE'S REPLY TO E. S. GRAVES

Joseph H. Choate, Jr., replies to the statements of E. S. Graves, who used the columns of the "New York Times" recently to stab the American dye industry. Mr. Choate says in part:

"Mr. Graves's letter wholly neglects the sole vitally important aspect of the question—its bearing on the national welfare and defense. It is not to benefit our dyemakers that so many disinterested men and great consumers of dyes have been laboring to save our new industry, but because of the conceded fact that only a great domestic dye industry can keep us supplied with the means of national defense, with the men and materials necessary for the advance of applied science, and with the hope of vastly increased medical knowledge. Mr. Graves ignores all this and treats the question solely from the point of view of the apparent immediate financial self-interest of the textile manufacturer.

"Mr. Graves's suggestion that the former importers ought to be reinstated in their old business shows a blindness to facts. Who were these importers? They were the direct subsidiaries or branches—the mere creatures—of the German "Big Six," the six huge manufacturers who in 1916 combined into the present gigantic German dye trust—a commercial monster the amazing iniquity of which was well known to every one connected with the business, and was disclosed to the public by the Alien Property Custodian's report.

"The action of the Custodian has terminated the business of most of these agents and suspended the power which they exercised with such success to impair the development of a domestic dye industry. It is disheartening at this day to find an American citizen willing to place himself on record as in favor of the reinstatement of these gentry."

#### EMPLOYEES ON BOARD OF DIRECTORS

For the first time in the history of any large Cincinnati corporation employees of the Procter & Gamble Company will be offered positions on the Board of Directors. One man from the Ivorydale plant, one from the Kansas City plant and one from the Port Ivory plant will be elected from the ranks of employees to take their places on the board. The only qualifications of a nominee for the position are that he must be at least thirty years of age and must have been in the services of the Procter & Gamble Company at least three years. Men who have reached twenty-one years of age and girls who are eighteen years or over will be entitled to vote at the election to be held this week. The plan is the outcome of the successful operation of the conference committee plan.

#### ARMY MAY HAVE PHARMACEUTICAL CORPS

Dr. Charles T. Souther, President of the Ohio Branch of the National Pharmaceutical Service Association, says that he has received assurances that Major M. W. Ireland, General Surgeon of the Army, will give his indorsement to the Edmonds bill pending in Congress, which provides for recognition of pharmacists by the establishment of a pharmaceutical corps in the United States Army. Dr. Souther said among other influential members of the medical profession who have volunteered recently to assist in obtaining legislation are Dr. J. H. Baldwin of Columbus, President of the Ohio State Medical Association, and Dr. William H. Peters, Cincinnati Health Officer. Dr. Souther has devoted considerable of his time since returning from service in France to furthering the interests of pharmacists.

#### Business Brevities

The Franklin Soap Stone Products Company, Roanoke, Va., has filed notice with the Secretary of State of an increase in its capital from \$100,000 to \$125,000.

Florida shrimp will be utilized for the manufacture of fertilizer by the Nitrate Agencies Company, Jacksonville. Experiments have been progressing for several months and it is claimed this fertilizer is equal to Peruvian guano.

Exports during August amounted to \$76,000,000 more than in July, being valued at \$646,000,000. In August last year the total was \$527,000,000. For the eight months ended with August exports were valued at \$5,275,000,000, against \$4,000,000,000 for the corresponding months in 1918. August imports amounted to \$308,000,000, a decrease of \$35,000,000 as compared with July.

A new plant for the grinding of tale and soapstone has recently been completed at Henry, Franklin County, Virginia. The mine and mill are owned and operated by the Franklin Soapstone Products Corporation, of Roanoke, Virginia. The mill has a reported capacity of 200 tons of finely pulverized material per day. The material now being ground is a soapstone, and its principal markets will be found in the paint filler, foundry facing, composition roofing and rubber trades.

The Michigan Drug Co. has issued a booklet entitled "One Hundred Years," being a review of the company's business life with emphasis on the service extended to retail merchants by handling 35,000 items gathered from every country on the globe. The interesting account was written by Justin O. Buckeridge and is illustrated with reproductions from photographs and old prints. The company was started in 1819 by C. Penniman, who learned pharmacy under Jacob Schieffelin, founder of the house of Schieffelin & Co., New York.

The Southwestern Chemical Company, of El Paso, Texas, will manufacture soda fountain syrups, icecream compound, commercial chemicals, vaccines, disinfectants, flavoring, household ammonia, perfumes, pomades, talcum powder, beauty lotions, extracts, drugs, medical supplies, serums, vinegars, acids, bottle cider, toilet waters, face creams, face powder and hair tonics. They will act as jobbers and distributors for the following products: drugs and drug supplies, hospital supplies and rubber goods. Dr. G. B. Calman is president and J. C. Slaton, formerly with the F. P. Burnap Co., of Kansas City, is vice-president.

A bill designed to promote the production and manufacture of talc in the United States has just been introduced in the House of Representatives by Congressman Fordney, chairman of the House Ways and Means Committee, "by request." The measure provides an import tax of one-half cent per pound on talc, steatite, soapstone and French chalk, crude and unground; of one cent per pound on talc, steatite, soapstone and French chalk, ground, washed, powdered or pulverized; of two cents per pound when these same materials are cut or sawed, or in the form of blocks, crayons or cubes; of fifty per cent ad valorem on manufactures of talc, talcum, steatite, soapstone and French chalk, wholly or partly manufactured, if not decorated, and of 60 per cent ad valorem on manufactures if decorated.

### BILL FOR DYE LICENSING SYSTEM AND HIGH TARIFF PASSED BY HOUSE

United States Tariff Commission to Control Issuance of Licenses—Democrats Voted Against Tariff, but Favored License Plan—Letter from Walter F. Sykes

(Special to Drug and CHEMICAL MARKETS)

Washington, D. C., Sept. 29.—The Longworth tariff bill, which also carries sections establishing a licensing commission, was passed by the House on Friday, Sept. 26, by a vote of 156 to 118. The voting was on strict party lines, the Democrats being recorded solidly against the measure because of the high tariff provisions. The bill provides a tariff of more than double the amount of the Underwood act. Representative Kitchin (N. C.) sought to insert in the bill rates of the Underwood act, but this was voted down by the Republicans, 114 to 158.

Believing the tariff alone was not a sufficient wall against the German dye trust, which information placed before the House showed has at least \$30,000,000 worth of dyes ready to send to the United States, the House, by a vote of 206 to 62, sustained the license system for dye imports against the protest of some Republicans, including Representative Fordney (Mich.), chairman of the Ways and Means Committee, and J. Hampton Moore (Pa.), ranking member.

The House instead of setting up a new board to pass on the questions of whether licenses shall be granted to importers of foreign dyes despite the high tariff conferred this power on the United States Tariff Commission.

In response to demands of some large textile manufacturers who claimed that some dyes still cannot be made in the United States because the patents are held by foreigners, the House made it mandatory on the commission to grant licenses for the importation of dyes that are not made here.

During the debate on the bill Representative Kitchin (N. C.), attacked the tariff features of the bill, but approved the licensing system. He said in part: "You can make the tariff as high as the Longworth bill, and higher than that, and yet you will not keep out the great supply of dyes accumulated abroad," said Mr. Kitchin. "If the Germans want to send in their dyes they will do it regardless of the tariff. The license system is undemocratic and un-American as a permanent policy, but we do many things in an emergency."

Representative Longworth, in defending the bill, asserted that an anti-dumping law would not furnish adequate protection. He said it was necessary to keep track of prices in administering an anti-dumping law and that it would be impossible to keep a record of the fluctuating prices of 700 colors in Germany.

Representative Moore, of Pennsylvania, in renewing his attacks upon the licensing system, read a letter from Walter F. Sykes, a dye importer, declaring that the Chemical Foundation was not formed by patriotic citizens, but by the Corporation Trust Co., which occupies part of the Du Pont Building in Wilmington, Del. Names of three stenographers were given who signed the incorporation papers as incorporators.

Representative Layton, of Delaware, said that from his experience as former Secretary of State of that state, he knew the procedure followed in using "dummy" incorporators was perfectly proper under the laws of Delaware.

Representative Kitchin took the floor to denounce

Representative Moore for his attacks upon the Chemical Foundation.

"Mr. Moore has attempted to muddy the waters," said Mr. Kitchin. "The question is whether you will have these rates or whether you will have the little and big dye manufacturers obtain greater protection by enacting this legislation. Seldom have I seen an attack upon an organization upon such a flimsy basis. There never was a group of more patriotic men than those who formed the Chemical Foundation."

#### INCREASE IN DYE PRODUCTION

A bulletin to shareholders issued by the Chemical Foundation, Inc., says:

"In 1917 the output of dyes in America was 45,977,245 pounds, valued at \$57,796,228. While we imported about an equal amount in 1918, seventy-seven manufacturers produced over 57,000,000 pounds, valued at \$61,000,000. Thirty-five manufacturers produced over \$22,000,000 worth of crudes and twelve manufacturers of intermediates produced 354,808,315 pounds, valued at \$123,817,966.

"There were over 75,000,000 pounds of finished products manufactured during the year, valued at \$83,095,404. In 1918 our export trade grew rapidly, the total exports of dyes, including natural dyes for the fiscal years, amounting to \$16,921,388. In June, 1919, aniline dyes valued at \$743,476 were cleared for export from New York.

"Nearly 300 different dyes were made in 1918, many of which were missing in 1917. American manufacturers have specialized in azo, induline and sulphur dyes. The latter dyes, which possess a high degree of fastness and are relatively cheap, are used extensively on cotton. Great progress is being made by American concerns in the production of the fast dyes made by the Germans before the war. At least three plants are manufacturing indigo in quantity, and we are promised other vat dyes in quantity in the near future."

#### INDUSTRIES OF NIAGARA FALLS

The first modern development in the Niagara Falls district was started October 24, 1890, and the first power installation amounted to 100,000 horse power. Through years of development and construction this power has increased until at present it is equal to 225,000 horse power on the American side and 380,000 on the Canadian. There is under construction at the present time 420,000 horse power, which will give a grand total of 1,025,000 developed or under construction. The estimated possible power development without impairing the natural beauty is 2,500,000 horse power, which is equivalent to over 16,000,000 tons of coal per annum.

Among the important chemical manufacturers in the Niagara Falls district are the following: Hooker Electrochemical Company, manufacturers of muriatic acid, caustic soda, bleaching powder, monochlorbenzol and dichlorbenzol; Niagara Alkali Company, manufacturers of muriatic acid, caustic potash, caustic soda, bleaching powder, monochlorbenzol and dichlorbenzol; Mathieson Alkali Works, Inc., manufacturers of caustic soda, bleaching powder and dichlorbenzol; National Electrolytic Company; Niagara Electro Chemical Company, American Cyanamid Company; National Electrolytic Company; Union Carbide Company; Niagara Smelting Corporation, and the Isco Chemical Co., Inc.

#### WAR PRICES OF NATURAL DYES

The natural dyes and tanning materials were seriously affected by the war, says P. W. Carleton, in a pamphlet on "Prices of Natural Dyestuffs and Tanning Chemicals," issued by the War Industries Board. The writer takes up the raw materials first—Divi divi, fustic sticks, gambier, hemlock bark, logwood sticks, oak bark, quercitron bark and sumac. The manufactured materials are treated under the headings: Chestnut extract, dextrine (domestic potato), fustic extract, hemlock bark extract, indigo (Bengal), logwood extract, quebracho extract, quercitron extract, sodium bichromate, and Turkey red oil.

The following table shows the imports for consumption for the calendar years of logwood and fustic:

|                   | Lo             | gwood              | Fus             | stic              |
|-------------------|----------------|--------------------|-----------------|-------------------|
| Calendar years    | Amount<br>Tons | Value              | Amount<br>Tons  | Value             |
| 1913              | 10.000         | \$469,450          | 6,079           | \$82,098          |
| 1914              |                | 522,434<br>832,196 | 6,507<br>22,463 | 98,870<br>340,294 |
| 1916              |                | 6,097,576          | 7,262           | 159,403           |
| 1917              |                | 1,519,878          | 10,442          | 289,756           |
| 1918 (3 quarters) | 29,841         | 668,141            | 11,800          | 278,387           |

The Tariff Commission has published data showing that from 1913 to 1916 the use of logwood by representative firms in the textile trades had increased as follows: Cotton, 367 per cent; silk, 447 per cent; and wool, 528 per cent; while the average price paid for logwood had increased about 320 per cent.

The prices for imported raw materials show a larger average increase than the prices for domestic materials due largely to shipping conditions.

Of the manufactured products the tanning extracts, chestnut, hemlock bark, oak bark, and quebracho show the smallest rise in price. The highest average price was for logwood extract.

#### COST OF NEW NITRATE PROCESS

On June 9 last the President of Chile witnessed experiments by Dr. Eduardo Charme, Senator from Colchagua, verifying his discovery in cheapening the production of nitrate. The process consists of a chemical reagent which precipitates the nitrate without the use of heat, a discovery which it is said will not only revolutionize the production of Chilean nitrate but will also reduce its cost by more than 50 per cent, and, at the same time, may render unprofitable the manufacture of artificial nitrate.

According to information furnished by Dr. Charme, the cost of producing a quintal of practically pure nitrate by means of his reagent will be reduced to such an extent as to make it even lower than any of the component parts of synthetic nitrate. He estimates that with the new process the production of 100 kilos of nitrate will cost 65 centavos of Chilean currency (about 13 cents U. S.), not including the cost of the extraction of the caliche or raw product and other expenses incurred up to the time of shipment. The cost of manufacture by the new process will be 80 per cent lower than that by the old method, and bearing in mind other expenses which can not be eliminated, the net reduction in cost will be in excess of 50 per cent.

Dr. Charme showed by experiments made in the presence of the Executive and of a number of experts that the purity of the nitrate obtained by his method was greater than 99 per cent, or the highest grade secured up to the present time in the manufacture of nitrate, since the richness of nitrate made by the old methods is seldom more than 65 per cent.

A shipment of 51,000 pounds of powdered aluminum has arrived from abroad, being the first of a series of such shipments. Sutro Bros. & Co. acted as bankers in the transaction.

#### WAR PRICES OF PHARMACEUTICALS

Twenty-seven Commodities Cited by Investigators for War Industries Board to Illustrate Fluctuations in the Drug Market—Domestic Production and Imports Given

W. Lee Lewis and F. W. Cassebeer have compiled for the War Industries Board a pamphlet on "Prices of Drugs and Pharmaceuticals," which contains valuable figures on domestic production of individual commodities in most common use, and the imports. In one table are included alcohol, chloroform, Epsom salt, ether (not including the amount used in the explosive industry), formalin, glycerin and sodium bicarbonate arranged according to their pharmaceutical importance, as follows:

| Commodity                     | 1917<br>production | Per cent of<br>total produc-<br>tion used in<br>medicinals. |
|-------------------------------|--------------------|---|
| Alcohol (non-beverage)gallons | 180,000,000        | 55  |
| Chloroformdo                  | 1,800,000          | 25<br>35  |
| Epsom saltpounds              | 12,100,000         | 35  |
| Etherdo                       | 2,500,000          | **  |
| Formalindo                    | 16,600,000         | 25  |
| Glycerinpounds, C.P.          | 70,000,000         | 6   |
| Sodium bicarbonatepounds      |                    | 3   |
| To the tiet of shammanutin    | -1 27              |   |

In the list of pharmaceuticals are 27 commodities, arranged alphabetically from acetanilid to thymol, in the following table:

| the following table.        | Domestic           | -          | ommodity  |
|-----------------------------|--------------------|------------|-----------|
| Commodity                   | Production<br>1917 | Imports    | weight    |
| Acetanilidpounds            | 923,078            |            | 923,000   |
| Acetphenetidindo            | 72,385             | 3,280      | 75,700    |
| Aloesdo                     | ******             | 850,217    | 850,000   |
| Antipyrinede                |                    | 21,824     | 21,800    |
| Aspirin (Bayer)             | ******             | ******     | *******   |
| Belladonna, crudepounds     | 65,000             | 33,000     | 98,000    |
| Bismuth subnitratedo        | 400,000            | ******     | 400,000   |
| Calomeldo                   | 300,000            | *******    | 300,000   |
| Camphor gum, refdo          | 182,000            | 3,564,024  | 3,750,000 |
| Castor oil No. 1 or AAdo    |                    | ******     | 3,000,000 |
| Citric aciddo               | 4,032,897          | 164,276    | 1,680,000 |
| Cocaine hydrochlorideounces | 53,904             | 7,489      | 61,400    |
| Cream of tartar, refpounds  | 12,046,120         | 96,134     | 121,000   |
| Digitalisdo                 | 10,000             | 12,000     | 22,000    |
| Iodinedo                    | *******            | 707,250    | 707,000   |
| Lanolindo                   | 300,000            | 3,668      | 258,000   |
| Licorice rootdo             |                    | 59,398,644 | 3,000,000 |
| Mentholdo                   |                    | 204,431    | 204,000   |
| Morphine sulphateounces     |                    |            | 513,060   |
| Nux vomicapounds            |                    | 3,040,283  | 3,040,000 |
| Opiumdo                     |                    | 113,733    | 114,000   |
| Quinine sulphateounces      | 5,565,000          | 720,747    | 5,290,000 |
| Salol                       |                    |            |           |
| Sodium bromidepounds        |                    | 720,000    | 720,000   |
| Strychnine sulphateounces   | 391,360            | 36,916     | 428,000   |
| Tartaric acidpounds         | ******             |            | 3,200,000 |
| Thymoldo                    | 5,639              | 4,937      | 10,600    |
| 7D1 11.1 . 1                |                    | 9          |           |

The commodities are taken up one by one and explanations offered for the price fluctuations, which were due mainly to war conditions, including lack of shipping facilities, scarcity of labor and extraordinary demands for products necessary in war work.

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Acetphenetidin did not advance appreciably the last months of 1914 because of the large stocks on hand which were "cashed in" and thus caused prices to move slowly. Selling at 84 cents a pound prior to the war, acetphenetidin rose in 1916 to \$42 a pound. The appearance of the American-made article on the market rapidly brought prices down to near normal. The purchases by the War Department from April, 1917, to the signing of the armistice amounted to 7,125 pounds. The fact that no other commodity included in this entire study sold during the war period at a price fifty times its pre-war price gives acetphenetidin special interest.

Antipyrine sold at \$2.35 a pound during 1913 and the first half of 1913 and the first half of 1914. During the first quarter of 1916 it sold as high as \$60 per pound. This coal-tar derivative came from Germany prior to the war, and the high prices represent an acute condition only relieved by the entry of Swiss, French and Japanese products.

Synthetic camphor, formerly manufactured in the United States and Germany, has been discontinued recently on account of the cost of turpentine. It is estimated that 85 per cent of the camphor entering the United States trade is used in the celluloid industries. In the Japanese Year Book for 1910, page 332, appears an estimate of the uses of the total world output of camphor as follows: Celluloid industries, 70 per cent; medicines, 16 per cent; Indian incense, 10 per cent; gunpowder, 2 per cent. In view of the fact that camphor is not used for Indian incense or gunpowder in the United States, the above estimate for the amount of the American production used industrially is reasonably correct.

Iodine was formerly obtained from Scotland and France, but at present by far the greater part of the world supply of iodine comes from Chile, where it is a by-product of the Chilean saltpeter industry. Japan ranks second in production. More recently an undetermined but small supply has been made on the Pacific Coast as a by-product in the kelp industry. Twenty-five thousand pounds is perhaps a fair esti-mate of the total 1917 domestic production. The price of resublimed iodine, which was \$2.60 per pound early in 1912, increased gradually until it reached \$4.25 per pound in 1915, since which time there has been very little change in price. Crude iodine, selling at \$2 in 1912, rose to \$2.50 per pound in 1917. The prices of iodine compounds have shown a corresponding change. It has been roughly estimated that 75 per cent of the crude iodine goes into potassium iodide, 7.5 per cent into sodium iodide, 7.5 per cent into resublimed iodine and about 10 per cent into all other compounds. The Medical Department of the Army purchased 280,000 pounds of medicinal iodine between America's entry into the war and the signing of the armistice.

Opium averaged \$6 per pound on the New York market during 1913. It was selling at \$6.85 just before the outbreak of the European war and immediately jumped to \$9.75. The highest price—\$30 per pound—was reached in the last quarter of 1917.

The maximum quinine manufacturing capacity of the United States is 5,250,000 ounces per annum, and the normal consumption of quinine in the United States is 6,500,000 to 7,000,000 ounces per annum. Before the war about one-half the quinine consumed was imported. A sharp advance in the price of quinine in 1913 was a result of a price-fixing agreement between the Java bark growers and the European salt makers. In 1915 the highest prices since the Civil War were reached in consequence of curtailment of shipments from Java to Europe, curtailment of allotments to the United States on the part of the Java Growers' Association, and an increase in the demand abroad and at home. It is stated that the United States call for quinine in 1917 exceeded the total amount in the world.

Paul Wenger, president of the Paul Wenger Co., is suing the Harper, Marshall, Thompson Co., Inc., for failure to deliver 300 cases of Japanese refined camphor, and Francis A. Cundill is suing the Paul Wenger Co. for non-delivery of the camphor to him. Mr. Wenger is suing for \$36,000 damages, alleging that the Harper, Marshall, Thompson Co. agreed to sell the camphor at \$1.80 per pound. Cundill sues for \$52,000, claiming that the Paul Wenger Co. was to deliver the camphor for \$1.90 per pound.

The Best Clymer Manufacturing Co. has purchased the properties of the Corn Products Refining Co. at Granite City, Ill., for \$6,750,000.

#### Books of Trade Interest

LATIN-AMERICAN YEAR BOOK, 544 pages, cloth, New York, Criterion Newspaper Syndicate.

A reference book which aims to furnish data of value to the prospective investor and the American exporter, it contains in condensed form facts and figures about Mexico, Cuba, Central and South America, American investments there, American Trade and opportunities for American enterprise. The conditions in Latin-America in reference to population and development are much like those in the United States about fifty years ago. The increase in the percentage of Latin-American imports during the last decade indicates that Latin-American trade is of growing importance.

Latin-American countries are heavy consumers of manufactured goods. The purchasing power of these countries, as measured by the imports per capita, is \$10.72, of which the United States furnished before the war 39.9 per cent and at the present time 66.1 per cent. Latin-America offers an excellent field for American investment notwithstanding the unsettled condition of certain countries. It is necessary to make a careful investigation of the nature of the business and the economic, financial and even political conditions in which the investment is intended to be made. Credit is in its infancy. Latin-American customers are very critical and resent very much any variation which gives less than promised. Among other subjects treated are the coffee situation in Brazil, the economic troubles in Argentina, the changes in the nitrate production in Chile and the financial reorganization of Nicaragua.

RUSSIA, HER ECONOMIC PAST AND FUTURE. By Dr. Joseph M. Goldstein, professor of political economy at the Moscow Institute of Commerce and Industry of Moscow. 4to., 103 pages. New York. Published by the Russian Information Bureau in the U. S.

Russia is a country of immense natural resources, and the prospect of peace has, to a certain degree, revived interest in that country and in the Russian market among business men. This interest is still insufficient considering the importance of the possible American-Russian trade and financial co-operation, which, if properly developed, may prove of great benefit to both countries. To awaken this interest in his country among the people of the United States is the purpose of Dr. Goldstein, and in sketching the facts of the economic past of Russia, and the great possibilities in her economic future, as he has done in this book, he presents an array of information and figures which are illuminating and conclusive.

The topics discussed relate to the cultivation of grain-foodstuffs and Russia's role in the world market, foreign trade and merchant marine, ports, railroads, mineral resources, banks and Russia's needs. The author estimates that the expenditures which will be required for the next ten years will aggregate \$56,450,000,000, about half of which, it is hoped, will be produced by Russia herself. The remainder should be furnished by the Allies, and among them, in the first rank, the United States and Great Britain. With the assistance of these great democracies, "the Russian people, accustomed to servile submission and indolence, will soon develop themselves the qualities of the Anglo-Saxon race-love for consistent work, initiative, and the energy to attain to self-set ideals, love of personal freedom, and love for their own great The introduction to the volume is from the country. pen of A. J. Sack, director of the Russian Bureau in the United States.

#### SPEAKERS AT THE EXPOSITION

During the closing days of the National Exposition of Chemical Industries, Chicago, Ellwood Hendrick, president of the Chemists' Club, New York, spoke on the importance of the chemical laboratory, saying in part:

"The American Chemical Society and the vast majority of the chemists of the United States ask the maintenance of the Chemical Warfare Service as a separate branch of the army, and that it be not merged and therefore lost in the army engineering corps. The army engineers are busy in peace times with rivers, harbors and similar work, and as a consequence the least competent officers will be given charge of the chemical service.

"We must learn defense by learning the principles of offense. Chemical research is needed for this, and it is more important than drilling, for we cannot be caught unprepared and therefore at the mercy of any unscrupulous foe which may disregard international conventions and attack us with the highly modern and scientific methods of gas warfare."

E. W. Washburn, secretary of the American Delegation to the International Union of Pure and Applied Chemistry, which met in Paris during the spring, said that every successful research result endorsed by the union would be exchanged between the nations of the world, and that through this progress the production of world labor would be increased and living costs reduced. The union will result in coordination rather than in duplication of efforts, the speaker said.

Several members of the Swiss delegation of manufacturers from Basle, Switzerland, attended the exposition and made a study of the chemical and dyestuff exhibits. They acknowledged that they found many improvements on German and Swiss methods of manufacture, especially in machinery.

### WARNS OF COMPETITION ABROAD (Special to Drug and Chemical Markets)

Washington, D. C., Sept. 30.—America's future export business depends to a great extent upon the happenings of the next six months, according to Philip B. Kennedy, Director of the Bureau of Foreign and Domestic Commerce of the Department of Commerce. In an article in a recent issue of "Commerce Reports," Mr. Kennedy gives an outline of conditions in foreign trade during the last year and details briefly what lays before us.

"The events of the next half-year cannot fail to be of the greatest significance to the future of American export trade," Mr. Kennedy declared.

'The present abnormal demand for American goods, due to underproduction abroad, may conceivably tend to increase American costs. When trade is brisk at good prices the same attention is not always given to economies of production as when it takes close figuring to secure a profit. There may be a rebound in European countries when production gains momentum. England, France, Belgium and Germany have shown in the past that they could often manufacture cheaper than we could in the United States. In all these countries vigorous effort will be made. They have been hard-pressed and have every incentive to recoup. It is none too soon to study carefully the mounting costs which not only inflict us at home with the high cost of living but which may also sooner than we expect limit our opportunities abroad. trade is no Eldorado. Our foreign trade will in the long run succeed in proportion as we can produce skillfully and cheaply."

#### Financial Notes

The West Indian Sugar Finance Corporation declared a dividend of 5 per cent on the common stock. This brings the total paid upon the common for the fiscal year ending September 30, 1919, up to 7 per cent. The company placed the common upon a regular 7 per cent dividend payable quarterly. The 5 per cent dividend is payable September 30 to holders of record September 25.

Earnings of the Aetna Explosives Co., Inc., according to officials of the corporation, are now running at the rate of \$1,200,000 a year, which revenue is derived wholly from its explosive end of the business. The management now has under consideration plans calling for the change of the name of the company, because its future activities will be different from what the present name implies.

The New Jersey Zinc Co. has declared a quarterly dividend 4 per cent payable Nov. 10 on stock of record Oct. 31.

The Pennsylvania Salt Mfg. Co. has announced a quarterly dividend of 2½ per cent payable Oct. 15 to stockholders of record Sept. 30.

quarterly dividend of 1½ per cent has been declared on ed Drug Co., 2nd preferred, payable Dec. 1 on stock of United Drug (record Nov. 15.

Virginia-Carolina Chemical Co. has declared quarterly dividends of one per cent on common stock, and 2 per cent on preferred. The dividend on the common is payable Nov. 1 on stock of record Oct. 15, and on the preferred Nov. 1 on stock of record Oct. 16.

#### QUOTATIONS ON CHEMICAL STOCKS

| QUOINITIONS                            | 014      | OLIDALOID DIOOL                           | -      |
|--|----------|---|--------|
| Bid                                    | Asked    | Bid                                       | Askea  |
| Aetna Expl 11                          | 111/2    | Grasselli, pf100                          | 103    |
| Air Reduction 571/2                    | 581/2    | Hercules Powder210                        | 220    |
| *Am. Ag. Ch 95                         | 96       | Hercules, Powd., pf.107                   | 110    |
| *Am. Ag. Ch., pf., 931/2               | 97       | H'k Electro 65                            |        |
| Am. Chem. Prod 1                       | 11/2     | H'k Elec., pf 65                          | 75     |
| Am. Chicle 90                          | 95       | Heyden Chem 81/2                          | 9      |
| *Am. Chicle, pf 80 *Am. Cot. Oil 56    | 85       | *Int. Agricul 25                          | 26     |
| *Am. Cot. Oil 56                       | 58       | Int. Agricult., pf., 801/2                | 811/2  |
| *Am. Cot. Oil, pf 91                   | 93       | *Int. Nickel 251/2                        | 253/4  |
| Am. Cyan 35                            | 40       | *Int. Nickel, pf 91                       | 931/2  |
| Am. Cyan., pf 60                       | 65       | *Int. Salt 59                             | 60     |
| *Am. Druggists S 11                    | 111/2    | K. Solvay100                              | 120    |
| Amer. Glue 40                          | 45       | *Mathieson Alk 31                         | 34     |
| Amer. Glue, pf 65                      | 70       | Merrimac 911/2                            | 931/2  |
| *Am. Linseed 80                        | 80%      | Mulford Co 55                             | 60     |
| *Am. Linseed, pf 95                    | 96       | Mutual Co150                              | ****/  |
| *Am. Malt 52                           | 53<br>24 | *Nat. A. & C 501/2<br>*N't A. & C., pf 89 | 511/2  |
| Amer. Zinc 23                          | 60       | National Lead, pf. 81                     | 891/2  |
| Amer. Zinc., pf 59<br>Atlas Powder 137 | 143      | National Lead, pf 87                      | 109    |
| Atlas Powd., pf 90                     | 92       | N. J. Zinc240                             | 245    |
| *Barrett Co123                         | 1251/2   | Niag. A., pf 96                           | 100    |
| *Barrett Co., pf113                    | 114      | Parke, Davis & Co 1151/2                  | 116    |
| British Am Chem. 9                     | 95/2     | Penn. Salt 81                             | 83     |
| Butterworth-Jud 33                     | 35       | Procter & Gamble676                       | 695    |
| By. Prod. Co117                        | 121      | Rollin Ch 50                              | 60     |
| Carborundum135                         | 1353/4   | Rol. Ch. pf 80                            | 90     |
| Carborundum, pf1151/2                  | 116      | Royal Baking Po142                        | 150    |
| Casein Co 40                           |          | Royal Bak. Po., pf. 961/2                 | 98     |
| Celluloid Co135                        | 145      | Semet S175                                | 185    |
| Celluloid, pf                          |          | Sherwin-Williams520                       | 540    |
| Corn Products 871/2                    | 88       | Solv. Proc200                             | 275    |
| Corn Products, pf1061/2                | 108      | Stand. Ch 80                              | 100    |
| Cu-Mor Chem 1                          | 1        | *Tenn. C. & Chem. 121/2                   | 13     |
| Davison Chem 32                        | 321/2    | Tex. Gulf, Sul 153%                       | 151/2  |
| *Distillers' Secur 65                  | 651/2    | Union Carbide 80                          | 81     |
| Dow Chem175                            | 200      | Union Sulphur                             |        |
| Dow Ch., pf                            | 103      | *Un Drug149                               | 150    |
| Du Pont                                | 318      | *Un. Drug 1st pf 51                       | 52     |
| Du Pont, debs., pf., 90                | 92       | *Un. Drug 2nd pf148                       | 154    |
| Du Pont, C., pf 9                      | 11       | *Un. Dyewood 50                           | 61     |
| Fed. Chem 85                           | 95       | *Un. Dyewood, pf 90                       | 96     |
| Fed. Ch., pf 95                        | 100      | U. S. Gypsum                              | 1221/  |
| Freeport, Tex., Sul., 441/2            | 46       | *U. S. Indus. Alco.1321/2                 | 1331/2 |
| Freept, Tex. Sul., pf. 91              | 93       | U. S. Indus. Al., pf.103                  | 105    |
| *Gen. Chem                             | 182      | VaCar. Chem 79                            | 80     |
| *Gén. Chem., pf100<br>Grasselli        | 105      | *VaCar. Ch., pf1141/2                     | 116    |
| Grasselli                              | 170      |   |        |

#### BONDS

| Am. Agricul. Chem., 1st conv. 5s, 1928  | 97    | Asked    |
|---|-------|----------|
| Am. Agricul. Chem., conv. deb. 5s, 1924<br>Am. Cotton Oil deb. 5s, 1931             | 1011/ | 102      |
| THE APPROVE COPP 1st Mort & Col. tr. 5s 1932  | 82    | 83       |
| *Va. Carofina Chem., 1st Mort. 5s, 1923<br>*Va. Carolina Chem., conv. deb. 6s, 1924 | 97    | 96<br>99 |

\*Listed on New York Stock Exchange

The United States Industrial Alcohol Co. has called a meeting of stockholders for Oct. 7 to consider a resolution to increase the common stock, and the sale of the stock at less than par. The capital stock would

thereby be increased from \$12,000,000 to \$24,000,000.

#### New Incorporations

C. E. Farrington Co., Dover, Del., capital \$100,000. Chemical engineers. J. M. Frere, Wilmington, Del.; M. J. Noble, C. J. Fera, Newark, N. J.

General Alcohol Export Corporation, Manhattan, capital \$100,000. E. W. Wilson, F. M. Harrison, J. Kessler, Z William street, New York E. W. Wi New York.

The Equity Oil Corporation, Manhattan, capital \$50,000. Soaps and petroleum products. V. J. Williams, C. W. Hastings, H. V. Callahan, 521 Fifty-fourth st., Brooklyn.

Neuschaefer's Pharmacy, Inc., Brooklyn, N. Y., capital \$10,000. H. Lezwig, G. E. Neuschaefer, L. E. Eason, 233 Broadway, New York.

Science Toilet Articles Co., Manhattan, capital \$10,000. Chemists and druggists. I. B. Canfield, J. J. Alexander, T. W. Burke, 240 Riverside Drive, New York.

Ferraline Distributing Co., Macon, Ga., capital \$200,000. Proprietary medicines. H. N. Beard, A. M. Hobson, Marengo County, Alabama; S. K. Simon, Dougherty County, Georgia

Perfex Products Co., Newark, N. J., capital \$100,000. J. Harry Henegan, 810 Broad st., Newark.

Rose-Sartorius Drug Co., Vicksburg, Miss., capital \$100,000. Proprietary medicines. Eugene S. and Julian S. Rose and Will Sartorius, Vicksburg.

artorius, vicksourg. Centennial Chemical Corporation, Dover, Del., capital \$100,000. [. E. Jones, Mallie Phillips, M. B. F. Hawkins, Wilmington,

Utica Insecticide Co., Utica, N. Y., capital \$25,000. H. N. Gardner, A. F. Stacks, G. I. Koehnelein, Utica.
Aztec Herb Medicine Co., Manhattan, capital \$100,000. H. Dougherty, E. Ferrata, J. S. Bernstein, 233 Broadway, New York.

Borelli Dyeing Co., Brooklyn, capital \$10,000. J. Borelli, R. S. Hitch, F. Ruby, 1586 East 18th st., Brooklyn, N. Y. W. Benkert & Co., Manhattan, capital not stated. Export and import of crude drugs. W. Benkert, H. J. Montansano, W. A. Marden, 484 East 17th st., Brooklyn.

Pelatin Soap Works, Inc., Newburg, N. Y., capital 22,500 shares preferred stock \$10 each; 2,500 shares common stock no par value; active capital \$250,000. L. H. and F. H. Leitheiser, C. F. White, 1753 West Tenth st., Brooklyn.

Allied Chemical Co., Dover, Del., capital \$3,000,000. M. M. Lucey, B. M. Barret, M. Butler, Wilmington, Del.

#### TIN PRICES IN LONDON AND NEW YORK

London prices of tin advanced last week, according to a cable received at the Metal Exchange. The levels announced from overseas were as follows: Standard, spot, £277 10s, up 10s, with sales of 40 tons. Futures, £275 15s, a gain of £1 5s, with sales of 400 tons, and Straits, spot, £278, a gain of £1 per ton. Eastern c. i. f. London was quoted at £276 10s a loss of £3 per ton and the sales were 50 tons.

In the local market there is a fair demand for all positions. The prices quoted are as follows: Straits, spot, 55c; afloat from England, 543/4c; September shipment, 543/4c, and October shipment, 541/2c, Afloat from Straits, 541/2c; September shipment, 533/4c; October, 531/2c, and November, 531/4c per pound. In connection with this market, it was reported that the position of the steel strike was so favorable that without doubt the large tinplate interests, which have been holding back in their ordering, will soon be in the market again. On the Metal Exchange the following levels were noted: Straits, spot, 547-8c and spot, 99 per cent, 541/8c per pound.

At the Dutch tin auctions, four hundred slabs of Banca tin were sold at Amsterdam on Thursday. The price paid was 1621/2 florins per fifty kilos.

J. C. Clancy, chemist at the Mathieson Alkali Works, Niagara Falls, N. Y., is producing 100 pounds of ammonia daily by a new process which he discovered recently. The air is stripped of nitrogen, which is mixed with hydrogen stored in cells, and the ammonia is produced therefrom. It is expected that ten tons will be made daily in a short time.

Dr. Leo H. Baekeland contributed an article on the diplomatic situation between Holland and Belgium to the "New York Times" of Sunday, Sept. 28.

### The Drug and Chemical Market

Current Spot Quotations of Pharmaceuticals, Page 32; Crude Drugs, Pages, 34-36; Essential Oils, Page 38.

#### GREATER ACTIVITY IN DRUGS

Manufacturers of Morphine and Codeine Reduce Prices—Salicylic Acid and the Salicylates Advanced —Quinine Firm and Higher—Many Botanicals In Good Demand

### PRICE CHANGES IN NEW YORK (Stocks in First Hands)

| A |  |  |  |
|---|--|--|--|
|   |  |  |  |
|   |  |  |  |

Acetanilid, 3c tb.
Acid Salicylic, 5c tb.
Aconite Root, 5c tb.
Camphor, Monobrom, 25c tb.
Cinnamon, 3c tb.
Cinnamon, 3c tb.
Eucalyptol, 10c tb.
Elm Bark, Select, 12c tb.

Haarlem Oil, Dom., 75c gross
Henna Leaves, 5c fb.
Ipecac Root, 10c fb.
Lycopodium, 5c fb.
"Quinine, 10c oz.
Saffron, Amer., 2c fb.
Silver Nitrate, 2c oz.
Sodium Salicylate, 5c fb.

#### Declined

Acid Citrie, 2c tb.
Second Hands, 7c tb.
Acid Tartaric, 5c tb.
Antipyrine, 50c tb.
Caraway Seed, Afr., 1/c tb.
Dutch, 1/c tb.
Colchicum Seed, 10c tb.
Cumin Seed, 1c tb.
Poppy Seed, Ind. Blue, 2c tb.
Yerba Santa, 2c tb.

Codeine Alkaloid, 50c oz.
Nitrate, 50c oz.
Sulphate, 40c oz.
Morphine Sulphate, \$1 oz.
Diacetyl Hydchl., \$1.25 oz.
Ethyl Hydchl., \$1.50 oz.
Apomorphine Hydchl., \$3 oz.
Henbane, Dom., 10c lb.

\*Second Hands

#### Trend of the Market

|                                  | Today | Last<br>Week | Last<br>Month | Last<br>Year |
|----------------------------------|-------|--------------|---------------|--------------|
| Acid Salicylic                   | \$.50 | \$.45        | \$.40         | \$.75        |
| Calomel                          |       | 1.76         | 1.76          | 2.00         |
| Camphor, Jap., ref               | 3.30  | 3.30         | 2.85          | 1.75         |
| Glycerin                         | .20   | .20          | .201/2        | .60          |
| Menthol                          | 8.75  | 8.75         | 7.75          | 5.75         |
| Opium, Gum                       |       | 7.50         | 7.50          | 21.50        |
| *Ouinine Sulphate                | .80   | .80          | .80           | .90          |
| Cantharides, Russ                |       | 3.50         | 3.25          | 4.00         |
| Ergot, Spanish                   |       | 4.00         | 3.75          | 1.75         |
| Buchu, Short                     |       | 2.10         | 2.00          | 2.40         |
| Ipecac, Cartagena                |       | 2.75         | 2.70          | 4.25         |
| Rhubarb, H. D                    |       | 1.75         | 1.85          | .65          |
| *No goods available at this pric | .41   | .41          | .38           | .47          |

There have been many important price changes in the chemical and drug groups during the week, confined principally to the pharmaceutical chemicals. The volume of business has been exceptionally good in all directions, sellers being more or less elated at the rate in which consumers are taking up supplies. With the exception of a few specialties, there has been very little speculative buying, most goods reported as going directly into the hands of users who are beginning to come into the market more freely after a long period of conservatism which has netted them nothing.

Perhaps the most noteworthy price revisions were among the narcotics. The long-looked-for decline in morphine and codeine was made by manufacturers. Citric acid has also moved lower in both first and second hands. Antipyrine continues its downward course. Salicylic acid and the salicylates have been advanced again. Acetanilid keeps moving upward steadily. Quinine is in a very firm position and higher, speculative interest being active. Silver nitrate, Haarlem oil, monobromated camphor and lycopodium have advanced.

Among the botanicals, select elm bark, aconite root and ipecac have led the advance. Caraway seed, cumin seed and poppy seed are slightly lower. Henbane and yerba santa have eased off. There has been active buying of drugs during the week.

Acetanilid—The price of acetanilid keeps moving up in the face of the scarcity and high price of aniline oil and a heavy demand from the trade for the finished product. Quotations for 200-pound barrels are now being made at 46c a pound by manufacturers.

Acid, Citric—The continued easy condition of the imported acid, resulting from the sharp falling off in demand, has been reflected in the price which American makers are quoting. Producers here are just keeping under the second hand figure in its descent, naming 93c a pound for crystals and 94c for powder. Second hands are reported selling as low as 95c@96c a pound on the spot.

Acid, Salicylic—Domestic manufacturers have again advanced their quotations for salicylic acid and the salicylates on the firm position of phenol, coupled with a strong demand for their product. The last advance has moved the price for bulk U.S.P. acid up to 50c a pound inside. For the salts, corresponding changes have been made. Sodium salicylate is now quoted at 55c@60c, the potassium salt at \$1.55@\$1.60 and methyl salicylate at 60c a pound.

Antipyrine—This product continues in a very soft position with selling competition cutting the heart out of the market. Down to \$6.00 a pound can be done easily and probably shaded for a good quantity of business. From this point up to \$6.50 is named by others.

Camphor—The strong position of the gum is unchanged. Prices are steady and firm at \$3.30 a pound for both the American and Japanese refined. Stocks are limited, especially in the form of tablets. In keeping with the high cost of the raw material monobromated camphor has been advanced to \$4.50 a pound by makers.

Codeine—Along with morphine, this alkaloid has been reduced by makers on the continued easy position of opium and the large stocks which are accumulating in this market. The decline is not unexpected and has been looked for during the past two months or so. For the alkaloid, \$10.65 is ruling. The sulphate is quoted at \$8.50 and phosphate at \$8.00 per ounce, all figures named for 10-ounce lots.

Haarlem Oil—Domestic haarlem oil has been advanced by makers from \$3.75 to \$4.50 per gross. The imported oil is quoted unchanged at \$6.00 a gross.

Lycopodium—The powder is scarce and in active demand. The price has been advanced again by holders. Quotations for spot stuff are being made at \$1.75 @\$1.80 a pound. A day or so ago, \$1.70 was done, but it seems impossible to get the goods at this figure now. Arrivals this week amounted to 30 cases.

Menthol—The menthol situation has remained more or less stationary during the week. In a small way, \$8.75 a pound is still being done, but it is reported that for any quantity of goods, holders are very firm in their ideas and will not let the product leave their hands for anything less than \$9.00. The same idea, that the market here is in for a long siege of \$10.00 and higher menthol, seems to prevail. Many holders are remaining out of the market at present, maintaining that they still have plenty of time to get in when the price is well above its current level.

Morphine-A sharp decline in morphine and its de-

rivatives, as has been looked for in the trade for some time, has been made by domestic makers. Importations of opium have been very heavy of late, and large stocks in warehouses here have softened the market considerably. For morphine sulphate, in 25-ounce lots, the new price is \$8.80 per ounce, bulk, with the usual advances for small containers. Morphine diacetyl hydrochloride is down to \$11.85 per ounce in 10-ounce lots. The diacetyl alkaloid is quoted at \$13.10. Ethyl hydrochloride (dionin) is named at \$13.45 and apomorphine hydrochloride at \$26.80 per ounce.

Opium—Quiet and easy without change at \$7.00 for large lots in cases. Up to \$8.00 is asked for smaller quantities. The powdered and granulated are quiet at \$9.25 a pound. This week 100 cases of gum came in from Smyrna.

Quinine—The same tight condition is ruling. Stocks are cleaned out, and such small business as is passing in second hands is bringing \$1.35@\$1.40 and in some cases up to \$1.50 per ounce. Manufacturers are delivering as little quinine as possible at the 80c price, being unable to obtain anything like sufficient bark. Tales of offerings of hundreds of thousands of ounces here and there in the trade usually are all "sold out" when a real buyer arrives. The outlook is very dubious, and speculative interests are buying, where the goods are to be had, even at present prices, basing their hopes on the future.

#### Crude Drugs

Aconite Root—This item is in very limited supply on the spot, and the price for such goods as can be bought is higher at 55c@65c a pound.

Balm Gilead Buds—They continue very scarce with prices firm and unchanged at \$3.50@\$3.75 a pound.

Cinchona Bark—All grades of the bark are in very light supply, and prices are moving upward. Red quills are bringing in the neighborhood of 85c a pound while the broken are selling for 55c@60c.

Caraway Seed—The seed is in very heavy supply on the spot, and shipments continue to arrive. This week 1,623 bags have come in from Rotterdam. For the Dutch, 15c@15½c a pound is named and for the African 16½c@17c.

Elm Bark—A sharply higher price is noted for the select bark at 40c@42c a pound. Grinding is very firm and in small supply at 21c@25c.

Henna Leaves—Sixty bales arrived last week and are being disposed of by the consignee at a slightly higher price than was formerly ruling, 65c@68c a pound.

Ipecac Root—Both Rio and Cartagena root are firmer. Inroads have been made into stocks by consumer demands. On the spot, \$2.80@\$3.00 a pound is named for both whole roots and \$3.25 for powdered.

#### POINTS FOR WHOLESALE DRUGGISTS

In discussing the topics to come before the National Wholesale Druggists Association at the New Orleans Convention during the week of November 3, "The Pelican," which speaks for the local committee, says: "The legislative year has been so important that the interests of every member, both active and associate, is directly affected. No one can afford to miss the comprehensive report of the Committee on Legislation, and all should be prepared to participate in the discussion of that report.

"The report of the Committee on Fire Insurance is of equal importance and will present data which will carry suggestions and recommendations of unusual value and interest. The committee will make many important recommendations and no one can afford to miss the session at which this report will be read and discussed."

#### CONTROL OF QUININE

The semi-official announcement which we made last week that the Government control of quinine was to be removed forthwith, says the "London Chemist and Druggist," has once again concentrated keen interest in this alkaloid. At the time of closing for press the notice had not been published in the "London Gazette," but it may be assumed that this is due to not unusual departmental delay.

It will be remembered that, according to the Quinine (Dealings) Order, November 7, 1918, the basis price for 10,000 ounces and upwards was fixed at 2s 11d per ounce, but it has now been practically decided that the makers' price for this quantity is to be 3s 5d, less the usual discount-a rise of 6d. As was pointed out last week, the Government control price during the war was not representative of the actual economic conditions affecting the drug. In other words, the Dutch makers maintain that their expenses have increased considerably, and that the 6d is to meet the extra cost of labor, fuel, etc., and not in order to increase their profits. At the same time, the huge dividends paid by the Dutch and Java quinine factories have indicated unusual prosperity for some years past, although it must be admitted that the combined capital is comparatively small.

Since the announcement last week there have been many inquiries for quinine in Mincing Lane, but the actual amount of business done must be very limited indeed, as the stock is not available. Sellers also hold back, preferring to wait the Government notice, on the publication of which the market will probably adjust itself to about 3s 6d to 3s 9d per ounce. It may be pointed out that pending decontrol it is still illegal to sell or buy quinine in quantities exceeding 1,000 ounces.

During the war it must be said that those who handled the quinine situation on behalf of the Government had a very difficult and delicate task; but it may be recorded that there is little, if any, dissatisfaction among the legitimate distributors, who when the machinery was in operation, were able to obtain their quinine requirements with the minimum of delay.

It is no secret that there is a shortage of quinine throughout the world, and, as speculators are looking forward to resuming operations, the danger of inflated prices may again have to be faced. Until the surplus stocks held by the Government are disposed of, the position is likely to remain more or less unsettled.

#### MARKET FOR SEEDS AND SPICES

John Clarke & Co. say this week concerning seeds and spices: "The market is more active in most grades; there has been wide pressure to close out fairly extensive lines of many sorts, and a buying movement for actual trade needs which has absorbed most offerings and left supplies, noticeably in black and white peppers, in first hands, very noticeably reduced. There are likely to be further needs for distribution on a fairly large scale, both domestic and export in origin, during the next six or eight weeks; and speaking broadly, and of course with some exceptions, there does not appear to be visible replenishment of adequate volume now afloat to meet the situation.

"Certainly spot and nearby supplies are not of sufficient volume to meet with any measurable adequacy any such export needs as are now plainly quite possible in this market. This is perhaps the foremost feature of the near future; it attracts the interested attention of American users and tends to stimulate purchases of spot stuff and that afloat for nearer arrivals."

### The Essential Oil Market

Current Spot Quotations of Essential Oils and Aromatic Chemicals, Page 38.

#### UPWARD TREND IN ESSENTIAL OILS

Producers of Peppermint Oil Holding Prices at High Levels—Oil of Cassia Advances—Artificial Sassafras Scarce and Higher—Prices Firm

#### PRICE CHANGES IN NEW YORK (Stocks in First Hands)

|                              | 1 a valleca                  |
|------------------------------|------------------------------|
| Citral, 25c fb.              | Oil Lavender Flowers, \$1 1  |
| Eucalyptol, 10c tb.          | Oil Sassafras, Artif., 5c tb |
| Oil Cassia, 5c fb.           | Oil Spearmint, 25c fb.       |
| Oil Cedar Leaf, 10c fb.      | Oil Wormseed, 25c tb:        |
| Oil Eucalyptus, 5c tb.       | Oil Wormwood, 25c fb.        |
| Oil Juniper Berries, 25c lb. | Methyl Salicylate, 5c tb.    |
| T                            | hymol, 25c tb.               |
|                              | Declined                     |
| Oi! Bergamot, 5c fb.         | Oil Mustard, Artif., 25c tb. |
| Oil Cubebs, 25c tb.          | Oil Caraway, 25c th.         |

### Oil Spruce, 5c ft. Trend of the Market

|                        | Today | Last<br>Week | Last  | Last  |
|------------------------|-------|--------------|-------|-------|
| Oil Bergamot           | 4.70  | 4.75         | 5.00  | 5.80  |
| Oil Citronella, Ceylon | .47   | .47          | .46   | .57   |
| Oil Cloves             | 2.90  | 2.90         | 2.70  | 3.25  |
| Oil Lavender Flowers   | 8.25  | 8.25         | 7.25  | 5.65  |
| Oil Lemon              | 1.10  | 1.19         | 1.30  | 1.30  |
| Oil Peppermint         | 7.75  | 7 75         | 6.50  | 5.30  |
| Oil Sandalwood, E. I   | 11.00 | 11.00        | 10.75 | 13.55 |
| Oil Sassafras, Artif   | .67   | .62          | .53   | .41   |
| Benzaldehyde, F. F. C  | 2.00  | 2.00         | 1.50  | 5.40  |
| Coumarin               | 7.00  | 7.00         | 7.00  | 33.00 |
| Eucalyptol             | 1.20  | 1.10         | 1.10  | 1.40  |
| Methyl Salicylate      | .60   | .55          | .50   | .90   |
| Vanillin               | .78   | .78          | .67   | .38   |
| Thymol                 | 6.75  | 6.50         | 6.25  | 13.25 |
| Menthol                | 8.75  | 8.75         | 7.75  | 5.75  |
|                        |       | _            |       |       |

So far this week, the essential oil market has been quiet and steady with a continuation of the firm undertone which has characterized this group for some time past. A routine demand is reported as taking up a fair volume of products. Such prices as have changed during the week, and there have been very few such, are generally showing a tendency to move upward.

Prices for peppermint oil have not been altered since last week, and just what producers and holders anticipate doing in the future is difficult to say. There has evidently been no weakening in their intention to maintain prices at present levels, and they are undoubtedly going to hang on until their ideas as to consuming demand are vindicated or they are forced to come down in order to move the large stocks on hand. The fact that two-thirds of the crop is reported sold means nothing. This quantity has merely passed into other holders' hands and is still a factor in the market until it actually goes into consuming channels.

Further advance has been noted in oil of cassia during the week on the heavy consuming demand and reductions which are being made in spot stocks. Oil of cedar leaf has tightened up. Eucalyptus has become firmer. Artificial sassafras continues scarce and is higher. Methyl salicylate has advanced. Bergamot is slightly lower here, continuing easy. Lemon oil is quiet and dull. Citronella, lavender flowers, linaloe, lemongrass and spearmint are very firm.

#### Essential Oils

Oil Almond—Prices both bitter, artificial and sweet are firm and unchanged at the levels noted last week. For bitter oil \$9.25 is quoted with prices up to \$9.75 a pound being heard for the F.P.A. grade. Benzaldehyde ranges from \$1.50@\$2.50 a pound, according to quality and seller. Sweet oil of almond is very firm

with stocks small at \$1.00@\$1.10. Peach kernel is unchanged at 40c@45c a pound, as to quality and quantity.

Oil Anise—Stocks are small with prices holding firm but quiet at \$1.55@\$1.65 a pound.

Oil Bay—There is still a shortage of bay oil in this market. Prices are steady, and no change has been noted with quotations at \$3.75@\$4.00 a pound.

Oil Bergamot—Quotations in Sicily are reported lower, and a similar weakening movement has been noted in this market during the week. Prices have eased off slightly, and quotations are being made at \$4.70@\$4.75 a pound. Stocks are very plentiful, and importations continue to come in, 40 cases being noted last week. The artificial oil is without change at \$2.50 @\$3.50 a pound.

Oil Camphor—Good sized importations of the Japanese white oil were noted last week, and the price here may reflect the arrival. The price is steady at present levels, holders naming 22c@23c a pound. For the sassafrassy oil 12c@14c is ruling. Last week 2,060 cases of the Japanese oil reached this port.

Oil Cassia—Heavy demand for oil of cassia continues to make pronounced inroads into the stocks of the oil on the spot. Inquiries from consuming interests are reported to be very active. Holders of goods here have strengthened their ideas as to price, and quotations have advanced further. The technical oil is in very active demand, and quotations are being made at \$2.35@\$2.40 a pound. For the lead free, \$2.45 @\$2.50 is the price, while the re-distilled, U.S.P., oil is quoted at \$2.85@\$2.90 a pound.

Oil Cedar Leaf—There is little relief from the shortage of stocks both here and in the country. Holders of goods in this market are no longer offering at \$2.10 and have stiffened up their ideas, making \$2.25 a pound the inside figure. Demand is steady for such goods as are available. Cedar wood oil is unchanged and not in any too good a supply at 25c@26c a pound.

Oil Citronella—There is still an active demand with prices firm and unchanged at 46c@47c a pound for the Ceylon oil and 90c for Java oil.

Oil Caraway—Sharp declines which have been made in caraway seed during the past few weeks have been reflected in the price of the oil. The quotations on the oil in this market are lower at \$6.50@\$6.75 a pound. Supplies are a trifle easier and are coming in better volume.

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Oil Cloves—There has been little or no change in the oil of cloves situation. Consuming demand continues to absorb good stocks, and prices are about the same. In some quarters \$2.85 can be done for tins but most holders are asking \$2.90 a pound. For lesser quantities, up to \$3.05 a pound is being asked.

Oil Cubebs—This item is reported to be slightly easier in some quarters, with quotations down to \$8.00 a pound inside being heard. Up to \$8.50 a pound is named, and one holder still quotes \$9.00 a pound.

Oil Erigeron—Still being held at \$9.00 a pound on the spot, although prices for future delivery down to \$4.00 a pound are understood to have been named.

Oil Eucalyptus—The Australian oil is greatly reduced in stocks in this market, and holders have marked up their prices as a consequence. For spot

goods 65c is now inside, and up to 75c a pound is being named by some sellers.

Oil Juniper Berries—This oil is in good demand, and stocks are reported to be none too large. Prices are somewhat stiffer at \$7.50@\$7.75 a pound for the rectified oil and \$7.75@\$8.50 for the double rectified oil.

Oil Lavender Flowers—The demand is very brisk for this item. Stocks are small, and it is believed in the trade that before long there is very liable to be an acute scarcity, owing to all spot goods being taken up and little or none coming forward. Prices are sharply higher at \$8.25@\$8.50 a pound and will very likely continue upward in the future.

Oil Lemon—This product remains in about the same position as was reported last week. The market in Sicily is easy and dull. Shipments arriving at New York have been large and are exerting an additional influence in keeping prices soft. Last week over 1,568 cases reached here from Messina. From one quarter m this market, it is reported that the demand is considerably brisker. For spot goods, \$1.10 a pound can be done very readily with some brands asking up to \$1.15 and higher. Very likely, a firm bid at a lower figure than \$1.10 would produce plenty of goods.

Oil Linaloe—This item is steady and firm at the advance noted last week. Quotations are being made on a basis of \$7.00@\$7.25 a pound. Stocks are scarce, and demand is said to be very lively.

Oil Mustard—An improvement in supply of artificial mustard oil has eased off the price here. For spot goods, \$11.00 a pound can be done with some holders asking up to \$11.50 for smaller lots.

Oil Orange—Prices are unchanged at former levels. For the bitter, \$2.25@\$2.30 a pound is named. For the Sicilian sweet oil, \$3.00@\$3.10 is quoted, while the West Indian is named at \$2.25@\$2.30 a pound.

Oil Peppermint—Holders are still keeping grip on the situation and do not appear to have weakened. Spot stocks are small and are being taken up only on a hand-to-mouth basis. There is little business passing anywhere, except for immediate requirements, both buyers and sellers awaiting developments of a more definite character. The spot price for regular oil in tins is \$7.65@\$7.75 a pound, while for redistilled, U. S. P. oil, \$8.00 a pound is about the inside figure and up to \$8.25 is named.

Oil Sassafras—The artificial oil is higher at 65c@70c a pound. It is very scarce both here and in the country. The natural oil is unchanged at \$1.90@\$1.95 a pound.

Oil Spearmint—The smallness of stocks of spearmint oil on the spot is acute, and quotations of prices from most quarters are nominal. Such holders as have goods, however, have moved their ideas as to price upward and now name \$10.75.

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Oil Wormseed—Another advance has been noted in the price of oil of wormseed which is very scarce at the present time. Holders are naming \$4.50@\$4.75 a pound for spot goods.

Oil Wormwood—This item is slightly firmer at \$7.00 @\$7.50 a pound.

#### Aromatic Chemicals

Methyl Salicylate—In keeping with an advance in the price of the acid by manufacturers, the price of methyl salicylate has also been marked up to 60c a pound inside. For lesser quantities than cans, 65c a pound is being quoted.

Citral—This product has been advanced to \$4.00@ \$4.25 a pound on the smallness of stocks by a holder here.

#### PERFUMES SENSITIVE TO LIGHT

Victor Vivaudou Discusses Care in Handling Goods When Offered for Sale—Suggestions for Window Displays—Use of Dummy Bottles

Victor Vivaudou says that light, particularly electric light, has a powerful influence over perfumes, affecting both color and odor to a marked degree. Excessive heat causes decided and rapid deterioration. It has been asserted that the rays of the moon induce fading of both perfume and label. Window displays should be carried out with these facts in mind, and it is generally well to use dummy bottles which are put up by most manufacturers for display purposes. A too low temperature is sometimes as serious in its effects upon the appearance of perfumes as either light, heat or cold. It precipitates the solids in solution, resulting in permanent cloudiness or flakiness.

Writing on the subject of the "Care and Presentation of Perfumes and Toilet Preparations" in "Ungerer's Bulletin," Mr. Vivaudou discusses further the handling of perfumes when offered for sale, saying: "Isn't it illogical and wrong for the druggist to come from behind the prescription desk, unstopper a bottle of bulk perfumery and extend the odor to the customer with hands that have just been busied with iodoform or some other substance which, however grateful to cuts and sores, has nothing in common with the aesthetics of smell or with the particular scent that is being offered for sale?

"In the case of bulk perfumes, more commonly sold in the West than in the East, special care is required to keep odorized fingers away from the perfume and to avoid the transposition of stoppers. This latter accident can be precluded by attaching the corks to their several bottles by, say, little aluminum chains. This should be up to the manufacturer. In handling bulk edors great care must be taken to keep the graduator clean and when there is only a little left in the large bottle it should be decanted into a smaller container to avoid oxidation.

"The samples, vials and devices supplied by progressive manufacturers should make it unnecessary to unstopper bottles on sale, and under ordinary circumstances it is well to keep the merchandise on view in the show case rather than within the reach of prying hands.

"It is difficult in many stores to set aside a special case for perfumed products, but, if it is at all possible, this space should be commandeered. For perfumes and toilet preparations orderly arrangement is Regulation Number One, and this does not exclude the tragic and unbefriended little cake of violet toilet soap that is kicked about and mutilated until it loses even its good name. Full advantage is not always taken of the artistic boxes, gotten up with great pains and at large expense for this very purpose of persuasive display. Why extract the bottle and toss these willing sales-servants into the limbo of the beneath-counter region? Send them home with the bottle."

Burton T. Bush, president of Antoine Chiris Co., 18 Flatt Street, New York, sailed for Europe on Wednesday, Sept. 24, and will remain abroad until late in November.

A recent cable from Sicily said of lemon oil: "The principal factor in the exportation of lemon oil continues to be the foreign exchange question with money values fluctuating widely, principally in the favor of foreign buyers. Most quotations out of Italy and offers from American buyers are being made in terms of American money."

### The Heavy Chemical Market

Current Spot Quotations of Heavy Chemicals, Page s 38 and 40.

#### CHEMICAL EXPORT MARKET STRONGER

Chlorate of Potash Being Shipped to the Orient— Caustic Soda in Better Demand—Muriate, Lump and Arsenic Scarce—Steel Strike Reduces Sulphate of Ammonia Supplies

#### PRICE CHANGES IN NEW YORK (Stocks in First Hands)

Advanced No Advances Declined No Declines

#### Trend of the Market

|                             | Today   | Week   | Month  | Year   |
|-----------------------------|---------|--------|--------|--------|
| Acetic Acid, Glacialb.      | \$.1234 | \$.12% | \$.14  | \$.19% |
| Sulphuric Acid, 66 degton   | 20.00   | 20.00  | 18.00  | 28.00  |
| Bleaching Powder100 tbs.    | 2.25    | 2.25   | 2.00   | 2.75   |
| Copper Sulphate100 fbs.     |         | 9.00   | 9.00   | 9.50   |
| Potash, Causticlb.          | .28     | .28    | .28    | .74    |
| Saltpeter, grantb.          | .131/2  | .131/4 | .133/4 |        |
| Soda Ash, 56 p.c100 fbs.    | 2.00    | 2.00   | 2.00   | 2.50   |
| Caustic Soda, 76 pc100 fbs. | 3.30    | 3.30   | 3.30   | 4.30   |
| Potassium Bichromatetb.     | .26     | .26    | .24    | .45    |
|                             |         |        |        |        |

The entire market continues to be the center of active buying, and the list for the most part is holding firm. Spot business is checked on certain chemicals which are scarce for prompt delivery. The export end of the market is somewhat stronger. Chlorate of potash is being shipped to the Orient. All potash sælts are under good inquiry for late delivery.

Muriate lump and arsenic are still scarce for prompt shipment. Aluminum sulphate is slightly stronger. Ammonia water is very firm and in strong request. There is very little material to be had. Sulphate of ammonia is tighter, owing to the steel strike. Bleaching powder is in short supply and good demand. Sodium salts are active. Caustic is in better demand for export, and soda ash has strengthened. Nitrite is very hard to secure on spot, and producers are under steady inquiry for later deliveries. The acid market is unchanged. Glacial is still in good call for both export and domestic use.

Acid, Acetic—Producers continue to put through sales of the 99 p. c. glacial at \$12.25 per hundred pounds, containers inclusive. Supplies are light for prompt shipments, and later deliveries are held at higher levels. Quotations on the various percentages are unchanged on the basis \$9.25@\$9.50 for the 80 p.

Alum—While 334c is quoted, large-lot business has been put through during the week at 4c. Powdered ammonia is in good request at 4½c@4½c, according to quantity. Chrome alum and chrome potash are both holding steady at 15c@16c for the former and 17c@18c for the latter.

Acid, Muriatic—C. P. material is in strong request, and producers are being pushed on their deliveries. The 20-degree muriatic is still in short supply although the output is somewhat larger and \$2.00 continues to be named for carboys in carload lots. There is very little, if any, 22-degree material on the market.

Acid, Sulphuric—The market on sulphuric is practically unchanged, and producers appear to be heavily booked ahead with offerings for prompt shipment restricted. The 60-degree acid is quoted at \$15; the 66-

degree at \$20, and oleum at \$25. Quotations are on tank car lots, sellers' works.

Aluminum Sulphate—Offerings at \$2.50 are limited. due to the firmer condition of the market, and, in directions, it is difficult to do better than \$2.65 on very large business. The conditions apply to the commercial grade which is quoted at \$1.75@\$1.90 per hundred pounds.

Arsenic—Producers have very little goods on spot and for the most part are under heavy contract at 9½c @10½c. Second hands are naming 9½c.

Ammonia Muriate—Arrivals of the lump material are readily bought up, and the scarcity of stocks continues at 25c a pound in casks and up to 28c for less quantities.

Ammonium Sulphate—The steel strike in cutting off supplies to a great extent is causing higher levels to be named by speculative interests. Producers' prices are unchanged at \$4.75. The demand is a shade easier.

Aqua Ammonia—Heavy buying pressure has tightened up the position of local stocks to such an extent that the market is practically bare. However quotations, while firm, are unchanged at 9c for the 26-degree in carbovs.

Antimony Sulphuret—The market is still without spot goods in any quantity, and heavy inquiry continues. Producers appear to be heavily booked on later deliveries.

Barium Chloride—Prompt shipments are held at \$77 per ton f. o. b. sellers' works for high-grade material.

Bleaching Powder—The weekly consumption, both export and domestic, continues on a broad scale. Supplies are light for prompt shipment and are firm at \$2.25 per hundred f. o. b. works. Good export business is being put through to the Far East and South America.

Copper Sulphate—Foreign shipments are being put through, but domestic buying is confined to small lots. The price is \$9 per hundred for the large crystals.

Copperas—Bulk material is quoted at \$1.00 per hundred pounds f. o. b. works. Barrels are in good demand at \$1.10@\$1.20.

Lead—The entire market on the various items is firm and under steady inquiry. Litharge and white basic carbonate are very light on spot owing to heavy contracting.

Nickel Salts—Steady buying is reported, with quotations firm among first hands at 14c for the double and 16c for the single. These figures are subject to shading in second hands.

Phosphorus—Buying is steady at 60c@70c for the red; 35c@40c for the yellow, and 42½c for the sesquisulphide.

Potash Caustic—Spot goods are active at 28c@32c per pound, but the inside figure is subject to considerable shading on large orders.

Potassium Bichromate—There is still a shortage of stocks, and the price is strong at 26c@27c a pound. Goods for late October have been quoted at 25c on large lots.

Potassium Carbonate—U.S.P. goods are strong and firm at 50c per pound. Practically the only percentages available in the market range from 80-85 p. c., and prices are 25c@27c per pound.

Potassium Chlorate—Japanese buyers are active in the local market, and 3,000 casks recently left this port for Kobe. Inquiries from outside interests are coming through for large business, and prices are holding at 19c@20c per pound.

Prussiate of Potash—Very little material is offered on either grade. Sales of the red material were closed during the week at \$1.15 per pound. Yellow material is unchanged at 45c@50c.

Soda Ash—Stocks for 1920 are quoted at lower levels of \$1.62 for the 58 per cent, basis 48, on domestic delivery. The market at the present time is holding its own, and a steady volume of business is being placed for both domestic and foreign interests. Export goods in barrels are held at \$1.90 less 5 per cent, and bags at 10 cents higher.

Caustic Soda—Occasionally resale lots are offered at a figure considerably under the market price, but these lots are held for the most part by holders who are anxious to realize. Producers are under heavy contract, and the available material on spot is limited. Prices are unchanged at \$3.50 less 5 per cent for the 75 per cent, basis 60, for export.

Sodium Nitrite—The spot market is practically bare, and holders are all heavily booked ahead on orders. The market has been under heavy inquiry during the week, and large orders are \$11½c on late shipment. Spot goods are considerably higher.

Sodium Bichromate—The volume of buying is light, and stocks are plentiful. Spot goods are held at 14c@ 14½c in first hands and a shade lower among second holders. December deliveries are quoted at 13c, and contracts for next year are made at 8½c@9c per pound.

#### MONSANTO CO'S FAITH IN PHENOL

The appointment of the Monsanto Chemical Works, of St. Louis, with offices at No. 1 Platt Street, New York, as sole selling agents for the Government's surplus phenol amounting approximately to 30,000,000 rounds, was the result of a meeting called in April at the Chemists' Club, New York, which was attended by representatives of the various interested houses. Pessimism ruled. Many suggestions were made, among others that this vast stock be destroyed with the view of protecting the industry. Finally a representative of the Monsanto Chemical Works expressed faith in phenol and its future, and gave the opinion that with the proper tariff protection of dyestuffs increased production would result, with a corresponding increased use of phenol. While nothing definite resulted at the time of the meeting, it was shortly followed by offers from the Monsanto Chemical Works to buy the entire amount at a price several cents above the then prevailing market, or to act as the Government's agent, thereby permitting the Government to receive the benefit of any advance in price. The War Department officials favored the latter plan with the result that the Monsanto Chemical Works have received a contract making them sole selling agents for approximately 30,000,000 pounds of phenol.

This firm's extensive equipment for the production of phenol, together with the above mentioned surplus, gives them a prominent position in phenol, phenolates, salicylates, etc., and continues them as one of the chief sources of supply for these important items. Nagotiations for this contract with the Government were begun and were well advanced by John F. Queeny, chairman of the Board of the Monsanto Chemical Works, before he sailed for London on June 7, where he remained until recently in the interest of the firm's foreign business.

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#### OUTPUT OF PHOSPHATES IN TUNIS

## More Than 2,000,000 Tons Produced Before the War —Tunis Ranks Next to United States in this Industry—Shipments Fall off During 1918

In 1913 the total value of the production of the Tunisian mines amounted to 65,500,000 francs, as follows:—

|            | Tons      | Francs     |
|------------|-----------|------------|
| Phosphates | 2,072,000 | 45,500,000 |
| Lead Ore   | 59,500    | 9,500,000  |
| Zinc Ore   | 28,600    | 3,000,000  |
| Iron Ore   | 594,206   | 7,500,000  |

The corresponding approximate value of mineral ore and phosphates transported by the Tunisian railways during 1918 was as follows:—

|               | Tons        | Value in Francs |
|---------------|-------------|-----------------|
| Phosphates    | <br>862,494 | 25,874,820      |
| Lead Ore      | <br>30,662  | 13,031,350      |
| Lead Pure     | <br>301     | 361,200         |
| Zinc Ore      | <br>5,508   | 1,046,520       |
| Iron Ore      | <br>445,022 | 12,238,105      |
| Manganese Ore | <br>830     | 49,800          |
| Liquites      | 41,555      | 2,493,300       |

Tunis comes second to the United States as regards the production of phosphates, says the "London Chemical Age". Exploitation began in 1899, and in 1913 the production was over 2,000,000 tons. Tunisian phosphates can be classed under two categories: 58-63 and 63-68 per cent of phosphate tricalcite with less than 2 per cent iron and alumina combined. The activity of the phosphate mines was greatly restricted during the war by lack of labour, high wages, lack of fuel and raw materials necessary for working and for the upkeep of underground galleries, new material, plant, &c. The requirements of sulphuric acid for war purposes increased gradually to the detriment of those factories manufacturing superphosphates. Together with this, the shortage of tonnage greatly impeded the supplies of those factories as regards phosphates and pyrites. The demand of agriculture, although reduced, has only been partially supplied, and that after considerable delay owing to the congestion on the railways. Moreover, the prices of super-phosphates have been affected like those of most other commodities by a great increase, 30 francs per 100 kilos instead of 5 to 6 francs before the war.

Exports to neutral countries, after a slight decline in 1914-15, reached the figure of 189,000 tons in 1916, which is greater than that of 1913 (177,000 tons), on account of the greatly increased demand of Denmark (37,000 tons in 1915 and 77,000 in 1916, as against 12,000 tons only in 1913). On account of the measures taken to limit the tonnage to destinations which might appear doubtful, the exports to neutral countries fell to 27,000 tons in 1917 and 5,250 tons during the first half-year of 1918. Before the war, the two greatest consumers of Tunisian phosphates were France and Italy. As regards France, exports fell from 700,000 tons in 1913 to 142,000 tons in 1917. The first half of 1918 seems to show a slight increase with 81,000 tons. As regards Italy, the decrease was less acute 450,000 tons in 1913 and 205,000 tons in 1917-and the first half-year of 1918 shows a very great decrease to 72,000 tons.

The United Kingdom increased her demands from 181,000 tons in 1913 to 205,000 tons in 1917, and the first half of 1918 shows a considerable increase to 219,000 tons. This result is due to the fact that the United Kingdom before the war imported great quantities of phosphates from Florida, and that for the moment she could only get her supplies from North Africa. It is, moreover, evident that after this war the British market will be more open to African phosphates than it was before 1913.

### The Color and Dyestuff Market

Current Spot Quotations of Colors, Dyestuffs, etc., pages 40 and 42.

#### SUPPLIES OF BENZOL GETTING SCARCE

Limited Production by Coke Ovens Affected by the Steel Strike is Felt by Aniline Manufacturers— Extracts Firmer—Color Market Active but Business Confined to Small Lots

#### PRICE CHANGES IN NEW YORK

(Stocks in First Hands)

Advanced No Advances

Declined

No Declines

#### Trend of the Market

|                       | Today | Week  | Month | Year  |
|-----------------------|-------|-------|-------|-------|
| Benzol, C.Pgal.       | \$.25 | \$.25 | \$.25 | \$.24 |
| Naphthalene, flakeb.  | .06   | 06    | .06   | .0)   |
| Phenoltb.             | .12   | .12   | .14   | .44   |
| Xylol, puregal.       | .40   | .40   | .40   | .45   |
| Toluol, puregal.      | .26   | .26   | .24   | 1.50  |
| Aniline Oillb.        | .32   | .30   | .25   | 3.75  |
| Benzaldehydetb.       | .65   | .65   | .65   |       |
| Betanaphthol, disttb. | .45   | .45   | .45   | .65   |
| Paranitranilinetb.    | .95   | .95   | .95   | 1.70  |
| o-Toluidinelb.        | .25   | .25   | .35   | 1.00  |
|                       |       |       |       |       |

The market on intermediates is under heavy buying and constant inquiry. Large sales continue to be put through, although checked to a great extent because of the shortage of supplies on many of the important items. Prices are steady and decidedly firm. The trend is upward on all aniline products.

Aniline oil and salt are in very strong request, and producers for the most part refuse to take on new business before 1920. No definite quotation can be named on spot goods, as holders have different views of prices. Benzol is high and continues in strong position, owing to the lightness of supplies and strong inquiry. Flake naphthalene is slightly firmer, and shipments are somewhat tighter for prompt delivery.

The extract market is firmer, and advances are expected on many of the important items. Logwood is due to reach higher levels as well as hematine. Archil is very firm, and shipments are sold ahead. Albumen is easier, as well as the dextrines and starches. Shipments from primary points are light.

The color market is very active, and prompt deliveries on many important colors are difficult. Sales continue to be confined to small lots, and very little contracting is being placed for any length of time. Prices are holding firm and are strong at present levels.

#### Intermediates

H-Acid—Spot buying is limited, and most of the sales closed are on long delivery. The market is in good shape at \$1.50@\$1.60 per pound, and offerings are somewhat restricted.

Aniline Oil—Quotations are largely nominal and generally confined to one or two-drum lots. The market is practically bare on goods for prompt delivery, and this condition is not expected to improve before the end of the year. Producers for the most part are not taking on new business and are not quoting on-shipments before 1920.

Aniline Salt—A similar condition is reported in this market as exists on the oil. Nothing to be had on spot of any appreciable quantity, and the price asked is largely nominal at 32c@35c per pound.

P-Amidophenol-Base—Buying is heavy, and prices are strong at \$2.75 per pound.

Benzaldehyde—The technical material continues soft, and prices are weak at 65c.

Benzylchloride—Delivery on prompt shipments on large business is difficult. Quotations are between 26c @28c and even higher on spot goods.

Benzidine—The base is moving in good quantities for export, and quotations are firming up where little material is available. From \$1.20@\$1.25 is named. However, large business can be done at \$1.00 pound,

Dinitrobenzol—Where stocks are limited holders are asking up to 32c. Buyers are able to obtain a quotation of 23c on large quantities in certain directions.

Dimethylaniline—Buyers are experiencing difficulty in securing goods for prompt shipment. The market as a whole is well cleaned up, and producers are being pushed on deliveries. Quotations are higher at 55c@ 60c per pound.

Diphenylamine—In directions 58c is asked on large lot business. The prevailing inside price is considerably below this figure.

Betanaphthol—Sales are being closed at 45c on big lots, and up to 48c is asked on small transactions. The material offered on spot is limited, and the market is under heavy contracting.

Paranitrotoluol—The majority of producers are without offerings for prompt delivery. Practically the only material around the open market is confined to jobbing quantities at stiff prices; quotations between \$1.15@\$1.50.

Paranitraniline—The aniline oil situation holds this market in a tight position, and it is difficult to do better than \$1.00 per pound. Small business is commanding up to \$1.10 and is strong at that level.

Paraphenylenediamine—Good shipments are reported to the Orient, and domestic buying has increased to larger proportions. High-grade material is commanding from \$2.65@\$3.00 per pound. However, there is material offered slightly under \$2.50.

Phthalic Anhydride—The price question is weak, and buyers are able to do considerable under 90c on firm business. Selling competition is keen, which has a tendency to depress the market.

Orthotoluidine-Sales are being closed at 25c.

Paratoluidine—Producers for the most part are tied up on contract business. Spot stocks are difficult to secure and are held at high levels.

Xylidine—This market is strengthening, and prices are firming up owing to heavier buying.

#### Coal-Tar Crudes

Benzol—Very little material is being offered except for future delivery. Holders of any quantity are commanding a stiff price for their stocks. At the close 32c was heard on one tank car lot f. o. b. Providence.

Cresylic Acid—Inquiries are slightly heavier, and the volume of actual sales is steadily increasing. There are stocks on the market on the basis of 65c for the 95-97 P. C. material.

Cresol-Large orders are being placed, and the market is in good shape at 153/4c@17c for U.S.P. material.

Naphthalene-In directions, it is difficult to secure

flake material for prompt delivery. The volume of sales placed has increased, and quotations are fairly firm at 6c@7c per pound. The ball material is a shade stronger at 8c@9c per pound.

Phenol—First hands are holding at the Government price of 12c on car lots. Second hand material is available up to 17c per pound, according to quantity.

Pitch—The pitch market is under good buying pressure, and prices are holding strong at \$14@\$18 per ton.

Solvent Naphtha—Heavy buying is reported from Southern interests. Crude material is in short supply at 16c@18c a gallon and the white material at 22c@25c.

Toluol—The demand is largely routine and on small quantities. Prices are unchanged at 25c@30c a gallon.

#### Dye Bases and Dyewoods

Albumen—Holders are showing signs of weakness in their endeavor to encourage buyers, and, as a result, prices are tending downward. Leading factors name \$1.80 as their price for the Chinese egg. The imported blood continues very scarce.

Annatto—There is very little business passing, and holders are willing to name a low figure in order to dispose of stocks. This is especially true of the seed which is quoted at 5½c.

Archil—There is none available on spot, and future deliveries are well sold ahead. The inquiry is very strong, and holders are firm in their belief that prices are likely to reach higher levels soon. Double material is quoted at 17c@20c; triple at 19c, and the concentrated at 25c.

Fustic—Very little material is coming in, and the market on the sticks and chips is quiet at \$30 a ton for the sticks and  $3\frac{1}{2}$ c for the chips. Nothing new is reported in the extract market, which is rather quiet with supplies plentiful. The solid material is quoted at 22c@27c; 100 p. c. crystals at 30c@40c, according to grade, and the 51-degree liquid at 15c@19c.

**Divi Divi**—There is not much material offered on spot, and most of the shipments are sold upon arrival. The new crop is expected soon.

Hematine—Supplies are tightening in view of better buying interest. Because of this fact, holders are looking for an advance over present levels of 11c@13½c for the 51-degree extract, and 26c@28c for the 100 p. c. crystals.

Logwood—Stocks are moving in large quantities both for export and domestic, and as shipments of sticks from primary points are very light, the extract market is due for an advance. Quotations are firm on stocks available at 18c for the solid; 21c for the 100 p. c. crystals, and 10c@13c for the 51-degree Twaddle.

#### STRIKE STILL AFFECTS BENZOL OUTPUT

In view of the continuation of the strike in the steel industry important factors in the coal-tar situation have refused to accept any new business. The output is curtailed to such an extent that contract shipments are being held up, and buyers all over the country are forced to wait for stocks. While the strike has been in progress slightly over two weeks, its effect on market conditions is readily understood by the prices which holders of small quantities are asking. The production of sulphate of ammonia likewise is curtailed, and, as a result, higher prices are likely to follow.

#### Dyestuff Notes

J. S. Young & Co., Hanover, Pa., have received, via Baltimore, Md., two cargoes of logwood for use in the manufacture of dyes.

The Westmoreland Chemical & Color Company, 925 Chestnut Street, Philadelphia, manufacturer of colors, chemicals, etc., has awarded a contract for a three-story brick administration building, to cost about \$20,000.

The National Anifine and Chemical Co. is offering Erie Yellow Y and Wool Blue CB, similar to pre-war types known as Chrysophenine and Azo Acid Blue B. Eric Yellow Y is for cotton, wool and union goods, and Wool Blue CB for worsteds, yarns and dress goods.

E. I. du Pont de Nemours & Co. have purchased 65 acres on Back River, Baltimore, on the line of the Baltimore & Ohio Railroad. It is believed some industry is to be established in connection with Government material that is stored there.

The du Pont Powder Co., owners of the TNX plant at Barksdale, Wis., is dismantling the fifty buildings which were erected for manufacturing the new powder. TNX is similar to TNT, but instead of using toluol as a base for the manufacture of the powder, xylol is used.

The Anthrakone Dye Products & Chemicals Co., 1834 Broadway, New York, has taken over the business of the Globe Chemical Co. of New Jersey and will conduct the manufacture of anthraquinone and plans to develop as rapidly as possible the vat dyes derived from anthraquinone. The officers of the new concern are Irwin Arnow, president and general manager; C. Shafer, vice-president; M. S. Trop, secretary-treasurer.

The largest individual contract made in recent years for dyewoods in the West Indies has just been completed by Natural Dyewoods, Ltd., New York. The tract consists of about 12,000 acres of mountain land in the northwest section of Haiti, adjoining the frontier line of Santo Domingo in the districts known as Sabenetta and Bahon. As land cannot pass title to any but Haitien born of African blood, the timber rights alone have been contracted for, and cutting will be commenced as soon as the rainy season passes.

The trading profits of the Yorkshire Dyeware and Chemical Co. of England, for the year ended June 30 were £59,216, and £6,451 was brought forward. Debenture interest absorbed £3,591, and a final dividend of 5 per cent and a bonus of 25 per cent are proposed, making 35 per cent for the twelve months, adding £15,000 to the reserve, and £20,000 to the extensions fund, and carrying forward £8,701. The board recommended that the share capital be raised to £150,000 by the capitalization of £75,000 of the reserve fund, and that one new 15s share be added to every similar share now held. The company's trading profits for 1917-18 were £46,351; for 1916-17, £57,956; and for 1915-16, £54,002; and distributions for each period were similar to those proposed for the past year. Twelve months ago £25,000 was reserved; in 1917, £30,000, and in 1916, £29,000.

### The Oil Market

Current Spot Quotations of Oils, Page 42; Tallow, Greases, etc., Page 43.

#### VEGETABLE OIL PRICES STEADY

Renewed Export Buying Expected—Linseed Oil and Flaxseed Still Features of the Market—Only Small Shipments of Seed from Argentina

## PRICE CHANGES IN NEW YORK (Stocks in First Hands) Advanced

Peanut Oil, ref., bbls., 1c tb.

Declined

Lard Oils, 15c gal.

Linseed Oil, bbls., 26c gal.

Soya Bean Oil, 1c tb.
Menhaden Oil, Crd., Balt., 3c gal.

#### Trend of the Market

|                            | Today | Last<br>Week | Month  | Year   |
|----------------------------|-------|--------------|--------|--------|
| Cod Oil, N. F              |       | \$1.20       | \$1.15 | \$1.45 |
| Degras, Amer. bbls         |       | .07          | .073/2 | 1.50   |
| Lard, No. 1                | 1.30  | 1.45         | 1.45   | 1.50   |
| Menhaden, South, crd*      | 1.05  | 1.08         | 1.15   | 1.20   |
| Neatsfoot, 20 deg. c.t     | 2.25  | 2.25         | 2.15   | 3.19   |
| Red Oil. Crude             |       | .17          | .19    | .17    |
| Stearic Acid. T. P         | .30   | .30          | .31    | .25    |
| Coconut, Ceylon, dom, bbls | .17   | .17          | .19    | .1742  |
| Cottonseed, crude, tanks*  |       | .161/2       | .22    | .171/2 |
| Linseed, cars, bbls        |       | 2.12         | 2.22   | 1.88   |
| Olive, denatured           |       | 2.50         | 2.50   | 4.50   |
| Peanut, refined            |       | .24          | .29    | .21    |
| Sova Bean, bbls            | .17   | .19          | .19    | .181/2 |
| *F O B Mills               |       |              |        |        |

A steadier tone has supplanted many of the weak spots which characterized the vegetable and animal oil markets at the time of the last report. Prices have not shown a great deal in the way of recovery, but the renewed confidence of holders has in a good measure replaced soft prices, readily shaded, with a noticeably firmer tendency. The belief seems general that renewal of export buying in the very near future is going to have a marked "bullish" effect upon oil "prices in general. There has been less shading reported by weak second hand holders, and the position of the group in general shows an improvement. The market seems to be pulling out of the recent bad slump into which it fell very suddenly. The better feeling is developing slowly and steadily, but it is evident that it would not require a very strong bearish movement to break down the present gains.

A rather limited volume of consumer buying continues to be reported. Although there are heavy requirements which remain unfilled in many quarters, buyers are holding off awaiting further developments. Foreign exchange rates are still strongly against European purchasers, and it is very unlikely that they will come into the American market for additional heavy orders at this time if there is a possibility of getting the goods elsewhere.

Linseed oil and flaxseed continue to hold a prominent position on the oil stage. Although there are very heavy stocks of seed in the Argentine, the difficulties in transporting to the coast and arranging shipments from Buenos Aires are holding up good sized arrivals here. In Duluth, seed keeps easing off

slowly in a rather dull market.

Vegetable Oils

There have been very few price changes among the vegetable oils. Coconut is about the same as last week and rather quiet. Cottonseed holds firm. Corn oil is easy but quiet and unchanged. Peanut oil seems to reflect an improved tone. Soya bean oil is dull and easier. Linseed continues to hold quiet with growing

improvement as to the quantity of supplies reported.

Linseed Oil—October deliveries, which include the current month, are being quoted at \$1.86 per gallon for barrels in car lots by the crushers. There are considerably increased quantities of second hand oil about the market which are selling mostly in the neighborhood of \$1.90@\$1.95. Seed prices continue to move downward. Prices in Duluth are hovering in the general vicinity of the four-fifty mark and tending lower. Plenty of South American seed is available in Buenos Aires and up-country, but the rate at which it is being shipped to the United States for the use of Eastern crushers is limited owing to the difficulties of securing ample bottoms. Raw linseed oil in tank cars is being quoted at \$1.81 per gallon for immediate delivery.

Cottonseed Oil—There has been a slight firming tendency during the week. Prices are unchanged, but the attitude of sellers has been altered somewhat by the weather news from the South, which has not been of the best. For the crude in tank cars at the mills, 16c@16½c is ruling as at the time of the last report. Refined oil is procurable at 21c a pound for prime summer yellow. The oils are still weak but have showed signs of pulling out of the recent bad slump.

Coconut Oil—There is less second hand business passing at figures sharply under the market than was noted a week or two ago. Sellers are evidently confident that there will be a brisk renewal of buying very shortly, particularly for export. Prices for spot stuff are unchanged at former levels. Ceylon type oil is named at 17c@17½c a pound in barrels. Cochin in barrels is quoted at 19c and slightly above this figure in some quarters. Tanks of Ceylon oil on the Coast are being sold for 15c@15½c, and for Manila oil, 15c a pound.

Corn Oil—The very limited demand which is being shown in the trade for corn oil holds it in a very weak position. Food price agitation is keeping edible oils, refined corn among them, down. For crude oil in tanks at the plant, 16c a pound is being named. Refined oil in barrels is available at 24c@24½ a pound. Producers are naming 25½ as their price.

Olive Oil—On the prospect that there will be additional importations of Spanish oil before the end of the year, the market here is not quite as strong as was noted in the report of last week. Although prices on the spot are firm and unchanged, the tightness of holders is not quite as pronounced. Prices are given at \$2.50 for the denatured oil and \$3.00@\$3.15 a gallon for the edible.

Peanut Oil—This product has improved since the beginning of the week, in spite of the fact that there are good arrivals of Oriental oil being disposed of on the Coast, 14½c can be done, with some business in barrels, 26c is named, while domestic crude in tank cars at the mills is named at 22c.

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Soya Bean Oil—The slight recovery of last week has been dissipated by a downward trend. For tanks on the Coast, 14½c can be done, with some business having been reported at 15c. Spot oil in barrels is quoted at 17c@17½c. Edible is obtainable at 19c.

**Animal Oils** 

This group has shown a slight improvement during

the past few days. Demand is reported to be slightly improved with good orders passing in some products. Lard oil is easier. Neatsfoot is in fair demand. Red cils, stearic acid and oleo are quiet.

Lard Oil—Prices are somewhat lower on the easier condition of the lard market and larger supplies. Prime inedible is named at \$1.80@\$1.85; off prime at \$1.70@\$1.75; No. 1 at \$1.30, and No. 2 at \$1.20 per gallon.

Red Oil—Very quiet and unchanged at former prices—17c@17½c a pound. Demand is very light.

Stearic Acid—Prices are unchanged and demand quiet. For single pressed 27½c is ruling, for double 28½c and for triple pressed, 30c a pound is the price.

#### Fish Oils

This group is generally firm, with prices steady and well maintained by sellers.

Cod Oil—This product is firmer and continues in good demand. Prices are slightly stiffer at \$1.20 a gallon for Newfoundland oil and \$1.15 for domestic. Demand is good and stocks small.

Menhaden Oil—The demand for menhaden seems to have eased off slightly. Crude oil in barrels at Baltimore is quoted at \$1.05 per gallon. In New York there are small lots available at \$1.10. It is understood that the oil producers are soliciting business at the present time.

#### BRITISH LINSEED OIL TRADE

The direct imports of linseed at Hull, England, in 1917 totaled 371,210 quarters, compared with 1,127,-001 quarters in 1916.

(The quarter for Calcutta linseed is 410 pounds, for Bombay and River Plate 416 pounds, and for Russia, Canada, and United States, 424 pounds.) While direct imports decreased in 1917, correspondingly increased quantities were received from Liverpool and other ports by rail. The United Kingdom's imports of linseed totaled 2,506,836 quarters in 1916, 1,016,011 in 1917, and 1,310,278 in 1918. Two-thirds of the imports came from India and the remaining one-third principally from Argentina. During the war re-exports dwindled practically to nothing. In December 1916, linseed sold at \$24.80 per quarter (pre-war record, \$19,71), in April, 1917, advanced to \$32.85, and on May 9, 1917, the controlled maximum price was fixed at \$146 per ton or \$27.79 per quarter, and this price continued throughout the rest of 1917. In January, 1918, the official price was \$145.96 per ton, but by December the price had been increased to \$183.71 per ton.

Government restrictions practically eliminated oil exports from Hull in 1916. The Chamber of Commerce returns placed the Hull exports of linseed oil at 18,493 tons in 1915 and 614 tons in 1916, but no figures are available for 1917 and 1918. Invoices certified at the Hull Consulate for linseed oil exports to the United States totaled \$107,621 in 1914, were nil in 1915 and 1916, \$428 in 1917, and nil in 1918. The United Kingdom's exports of pure linseed oil were 53,962 tons in 1915, 23,351 in 1916, 16,791 in 1917, and 820 in 1918; other linseed oil, 1,905 tons in 1915, 1,443 in 1916, 2,217 in 1917, and 813 in 1918. The United Kingdom's imports of pure linseed oil totaled 84 tons in 1917 and 124 tons in 1918. In December, 1916, linseed oil sold at \$223.80 per ton, but on May 9, 1917, the spot value was \$262.79 per ton, when the Government-controlled maximum price of \$282.26 per ton came into force. The price gradually advanced to this maximum, and 1917 tlosed with no oil offered at this price, which also prevailed throughout 1918.

#### Oil Trade Notes

The Franklin Baker Company, Doremus Avenue, Newark, N. J., manufacturer of coconut oil, has filed plans for a three-story refinery, to cost \$26,000.

Sherwood Brothers Manufacturing Company, 256 Broadway, New York, manufacturer of greases and oils will rebuild its plant recently destroyed by fire.

Cook & Swan, Inc., 148 Front Street, New York, has awarded a contract to the Turner Construction Company for the erection of a two-story oil tank storage building, about 60x128 feet, at Bayway, N. J.

The United States Gutta Percha Co., 12 Dudley Street, Providence, R. I., has completed plans for the erection of a five-story addition to its paint and oil manufacturing plant, 50x100 feet, to cost about \$80,000, including equipment.

John M. Masury, & Son, 50 Jay Street, Brooklyn, N. Y., manufacturers of paints, oils, etc., have commenced the erection of a six-story, reinforced concrete addition to their plant, 50x105 feet, for increased capacity. The new factory will be located at Plymouth and Jay Streets.

The Universal Packing Co. of Fresno, Cal., has disposed of its plant to the California Products Company and the factory will be converted for the manufacture of vegetable oil products. Copra will be imported and oil will also be extracted from local products. Robert Hume is manager of the oil concern.

John Lucas & Company, Inc., Philadelphia, manufacturer of paints, oils and varnishes, has acquired the W. W. Lawrence & Company, Pittsburgh, Pa., capitalized at \$200,000. The purchase includes a large ninestory factory covering an entire city block on West Carson Street, Pittsburgh. Ernest T. Trigg is president and general manager of the Lucas company.

#### HULL'S COTTONSEED OIL EXPORTS

Hull's imports of cottonseed amounted to 193,201 tons in 1916 and 111,546 tons in 1917, but no statistics are available for 1918. The United Kingdom's imports totaled 329,237 tons in 1916, 219,045 in 1917, and 338,-194 in 1918. The Government purchased the whole of the 1918 Egyptian cottonseed crop for this country. At the close of 1916 Egyptian cottonseed sold at \$98.55 per ton, and Indian at \$92.46. Prices declined during the early months of 1917 but rose again by April. On May 9, 1917, the Government-controlled maximum price of \$92.46 came in force. In January, 1918, the official price for Egyptian was \$92.46 per ton and by December it had been raised to \$116.79.

The Chamber of Commerce returns give Hull exports of cottonseed oil as 4,646 tons in 1915 and 321 tons in 1916, but no figures are available for 1917 and 1918. The United Kingdom's exports of refined cottonseed oil were 21,505 tons in 1915, 2,407 in 1916, 652 in 1917, and 51 in 1918; unrefined, 4,702 tons in 1915, 171 in 1916, 1,521 in 1917, and nil in 1918. The United Kingdom's imports of cottonseed oil totaled 8,746 tons in 1917 and 19,276 tons in 1918. On May 9, 1917, the following controlled maximum prices became effective: Crude oil, \$291.99 per ton; refined soap oil, \$326.06; refined edible oil, \$364.99; and American refined oil, \$462.32. Crude oil was kept at the same price, \$291.99, per ton throughout 1918.

### The Foreign Markets

Imports and Exports of Drugs, Chemicals, Dyestuffs, etc., pages 43 and 44.

#### HULL OIL MARKET UPSET

British Control Committee Takes Charge to Check Speculation—Price of Linseed Oil Reduced to £76 —Japanese Refined Camphor Higher—Phenacetin Lower

(Special Cable to Drug & CHEMICAL MARKETS)

London, Sept. 30.—The general railway strike has held up trade in linseed oil, and there is considerable excitement and uneasiness in Hull. Speculation has been stopped by the Control Committee, reducing the price to £76. Since the removal of control of linseed oil in June, the market had advanced from £58 to £126.

Prices are higher for senna, saffron, gall nuts, Japanese camphor, cream tartar and manna.

The market is easier on permanganate of potash, sulfonal and vanillin.

Creosote carbonate, fenugreek seed, gamboge, honey, shellac and phenacetin are lower.

London, Sept. 15 (By Mail)—The leading feature of market interest has been the announcement made by the British Quinine Corporation that Government control of quinine is being removed forthwith. That is satisfactory inasmuch as it will promote normal trade in the drug. A slight increase in price is inevitable, and it is learned that the Dutch combine, which controls practically the whole world's supply of the drug, has decided to raise the price slightly. This is a natural consequence of the present scarcity of quinine, and the increased demand as against dwindling supplies, and a reduced production. It may be said with authority that the Government control price during the war has not been representative of the actual economic conditions affecting the drug. It is now well known that the speculative stocks of quinine are non-existent.

To form an intelligent idea of the commercial situation, we shall now have to watch closely the Board of Træde monthly returns of our imports and exports, as these form the surest chart available. The returns for August showed distinct signs of improvement, but the ailment from which we are suffering is a serious one, and the nation is a long way yet from recovery. The seriousness of the situation may be gauged from the fact that our August imports were nearly 149 millions, while our exports were less than 75 millions, or 74 millions on the wrong side; towards which our earnings in the carrying trade and in insurance will not go very far. The imports of manufactured articles show a healthy falling off to the extent of three millions, a decrease which is doubtless due to the formidable tax of the American exchange which is now over 15 per cent.

The Trades Union Congress at Glasgow will be watched with something akin to anxiety, since the fate of our manufacturing industries and the production of coal will be largely influenced one way or the other by the decisions as to increased production, and the nationalization of our mines, which latter, furthermore, may have a far-reaching influence throughout Europe.

As concerns market movements we have to record a considerable improvement in formaldehyde, glucose, phosphate of soda and a firming up of bromides and tannic acid. On the other hand citric acid, chlorate of potash and naphthaline are easier, and sulphate of copper and the salts of morphia are somewhat lower.

#### PRICES OF DRUGS IN JAPAN

(Special Correspondence to DRUG & CHEMICAL MARKETS)

Tokio, Sept. 1.-The market for drugs is inactive, but prices are firm. Antifebrine (acetanilid) is now yen 1.75 per pound compared with yen 1.55 per pound, last week. Sodium bicarbonate is steady at yen 8,70 for moon brand and yen 8.50 for H.B. brand, both in bags. The demand for carbolic acid is strong, owing to the prevalence of cholera, at yen 1.00 per pound, for disinfection, and yen 1.10 per pound for J.P. III. The price will further advance. The price of ergot has advanced to yen 6.50 per pound, advancing 50 sen. Ergot extract is yen 37.00 per pound. Formalin is yen 1.90 per pound in bottles and yen 1.80 in pots. The position of glycerin is firm, and the price is maintained at yen 0.80 per pound. Owing to the brisk demand for iodides and high prices of raw materials, the market is steady, manufacturers quoting yen 6.00 for iodide of potassium; seconds hands, yen 5.80; iodoform, yen 10.20, and iodine, yen 7.50 each per pound.

In sympathy with the advancing tendency of carbolic acid and the brisk demand for the hot season, perchloride has advanced to yen 4.20 and subchloride to yen 4.70 per pound. Phenacetin, owing to scarcity on spot, is selling at yen 9.50 per pound, advancing 50 sen per pound. Stocks of pyramidon continue scarce and are held at the high level of yen 95.00 per pound.

held at the high level of yen 95.00 per pound.

Owing to the prevailing rumor that the Government will permit the use of saccharin as a substitute for sugar, the price advanced from yen 80.00 to 90.00 per pound. Stocks are still scarce. Owing to the scarcity of santonin and the difficulty of getting the raw materials, the price is still held at the high level of yen 175.00 per pound.

#### COST OF MAKING PHENOLPHTHALEIN

The Research Institute for Hygiene at Osaka, Japan, has recently published the result of an investigation on the manufacture of phenolphthalein. The present cost in Japan is stated to be:

(1) Phthalic Anhydride

| Gr   | rms. Yen            |
|--|---------------------|
| Naphthalene 1                              | .125 0.360          |
|  | 2,562 1.954         |
| Mercury                                    | 281 2.498           |
| Commercial caustic soda                    | 344 0.191           |
|  | 640.5 0.068         |
|  | 5.061               |
|  |                     |
| That is, 8.40 Yen per pound of the product | (approx. \$4.51 per |
| pound).                                    |                     |
| (2) Phenelphthalein                        | 3*                  |

|  | Grms. | Yen     |
|--|-------|---------|
| Phthalic anhydride   | 250   | 4.667   |
| Phenol   | 500   | 0.867   |
| Sulphuric acid   | 200   | 0.156   |
| Caustic soda   | 80    | 0.356   |
| Acetic acid  | 333   | 0.222   |
| Absolute alcohol   | 533   | 1.776   |
| Bone charcoal  | 50    | 0.256   |
| Total for 182.9 grms, of the product                                 |       | 8.39    |
| That is, 20.421 Yen per pound of the prod per pound). (Yen-2s. 0½d.) |       | £2 13s. |

From the rapidity of this week's recovery in certain classes of foreign exchange, it is increasingly clear that speculative influences have governed market movements in no small measure, says "Dun's Review." Especially is this true of remittances on some of the countries of Continental Europe. As against a low record level of 3.15 on September 16, German marks this week rose, by successive stages, to above 4.50, while Italian lira rallied to 9.80. The French france, moreover, advanced to 8.39, and sterling from about 4.13 to 4.21.

#### CHEMICALS ADVANCE IN OSAKA

(Special Correspondence to Drug & Chemical Markets) Osaka, Sept. 1.—The demand for chemicals is brisk, and prices have advanced. Owing to the difficulty of importing borax and the scarcity on spot, the price advanced to yen 42.00 per kin. The price of bismuth is yen 7.80 per pound. Boric acid jumped to yen 93.00 per hundred kilos and is expected to touch yen 95.00. Shipments of ammonium carbonate have arrived recently, but they were all absorbed and the price advanced to yen 48.00.

Sodium chlorate holds at yen 30.00. Sellers are few and an upward tendency is evident. Speculative buying in phenacetin has sent the price to yen 9.50 per pound. Codeine phosphate is in a strong position, and the price is yen 40.00 per 25 grams, with advancing tendency. Salicylate of bismuth is active for the season, advancing yen 1.00 higher than last week and is now quoted at yen 11.00 per pound. A further advance is expected. Zinc powder is active, and stocks are small. Sellers are quoting yen 58.00 per 242 pounds.

#### Foreign Trade Opportunities

The Department of Commerce, Washington, D. C., has received the following inquiries for drugs, chemicals and accessories. Reserved addresses may be obtained from the Bureau and its district and cooperative offices. Request for each opportunity should be on a separate sheet and state opportunity number. The Bureau does not furnish credit ratings or assume responsibility as to the standing of foreign inquirers; the usual precautions should be taken in all cases.

30562—A manufacturing chemist in Bohemia desires to purchase in very large quantities the following: Soaps, shaving soaps in stocks, petrolatum. stearine, starch, rice powder, all kinds of vegetable oils, essential oils, paraffin, oxide of zinc, vanillin, cumarin, menthol, argentum nitricum, witch-hazel, chewing gum. colophonium, sandarac, damar, hypophosphite, and other chemicals. The sole agency for the sale of these goods is also desired. Quotations, with samples, are requested. References.

30591—A merchant in Czechoslovakia desires to purchase and secure an agency for toilet and laundry soaps, colored soaps, chemicals, shaving sticks, and drugs. These goods are needed in car-load lots. Payment will be made in cash, or if agreeable to exporter, in carload lots of herbs and drugs. Reference.

30007—An agency is desired by a man in Switzerland for the sale of chemicals for industrial purposes, oils, oil products, materials for soap making and for paper making, tanning materials, textiles, leather, and semiprecious metals and ores. Quotations should be given f.o.b. New York. Correspondence may be in English. References.

30619—A manufacturer in Czechoslovakia desires to purchase at once about 90,000 kilograms of crystallized soda for glass-manufacturing purposes and requests that prices and shipping details be forwarded. Correspondence may be in English. Payment, in United States currency.

3060—A commercial agent in Spain desires to secure an exclusive agency for the sale of aniline oil, phenol crystals, salicylic acid, bichromate of soda, hichromate of potash, hematine crystals, hematine paste, betanaphthol, paranitraniline, nigrosine, ultramarine blue, chloride of lime, sodium sulphate, lead acetate, castor oil, occonut oil, parafin, tannic extracts, and in general all products used in dyeing and tanning. Quotations should be given c. i. f. Spanish port, or f. o. b. New York. Payment, cash against documents. Correspondence should be in Spanish. References.

30710—An agency is desired by a manufacturers' agent in Australia for the sale of medicines and drugs put up in tablet form, tale powder, perfumery, toilet soaps, and general toilet articles. Reference.

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30712-A merchant in Italy desires to secure agencies for the sale of cocoa, cocoa beans, cocoa butter, cocoa powder, tin-foil, and chemicai and pharmaceutical products. Quotations should be given c. i. f. Genoa. Payment against documents through bank. Correspondence may be in English. References.

30713—The purchase of large quantities of California honey of first quality is desired by a man in Switzerland. Correspondence should be in French or German. Reference.

30737-An American exporting company desires to purchase and secure agencies for the sale of dyestuffs, glucose, and cornstarch. Reference.

#### Foreign Trade Notes

Sir S. W. Royse & Co., Ltd., of Manchester, report under date of August 29: "Business in chemicals has been fairly well sustained in spite of the holiday season, and prices on the whole remained steady. Carbonate of potash has advanced and is firm. Caustic potash is in moderate inquiry. There is a steady demand for sulphate of potash. Montreal potashes continue in short supply. The good demand continues for white powdered arsenic, and stocks are small. There is more inquiry for yellow prussiates, especially for soda, and makers hold firmly to their price for stocks. Tartaric acid continues in good request for both home and export, and a fair business has been done for delivery well ahead. Cream of tartar has advanced strongly with better export demand, and the market is firm. Citric acid continues steady. Bichromates of potash and soda are firmer, and second hand parcels are scarce."

The Directory of Chemical Industries in Canada for the Honorary Advisory Council for Scientific and Industrial Research by the Dominion Bureau of Statistics, and issued as a part of the Census of Industry, states that there are now 634 plants manufacturing chemical products in Canada. Of these 293 are in Ontario and 161 in Quebec.

#### DECLINE IN NITRATE OUTPUT

The decline in the output of Chilean nitrate has been heavy since the armistice, according to Consul C. F. Deichman, of Valparaiso, who says production is less than half what it was a year ago, and only 56 out of 114 plants are now in operation, according to official statistics. At the several ports along the coast conditions are bad on account of the nitrate business being almost at a standstill, and most of the workmen of Bolivian or Peruvian origin were returning home and the number of Chilean workmen is also much reduced.

The Chilean Association of Nitrate Producers is trying to hold up the price of nitrate to 10s 1d per quintal (46 kilos or 101 pounds) in Chilean ports for the so-called ordinary or 95 per cent nitrate, and 10s 4d for the refined nitrate (96 per cent). Some small sales were made by outside sellers in the past few weeks at 8s 11d per quintal for the ordinary and 9s 1d per quintal for some 96.1 per cent nitrate, but the latter can hardly be considered the market price, as the principal producers belong to the association and must abide by the selling price fixed by that organization. The association is now discussing the question of reducing the price, but has not yet come to any decision.

#### IMPORTS OF TIN IN 1918

The output of tin from domestic ore in 1918 was only 68 tons, nearly all of it obtained from placers in Alaska.

The tin imported in 1918, as metal and in concentrates, amounted to 82,854 short tons, the largest quantity yet brought into the country in any one year.

Deposits of tin ore are found in California, Virginia, North Carolina, South Carolina, South Dakota, Washington, Nevada and New Mexico, but the ore at some of them contains so little tin that it can not be mined with profit.

Tin concentrate from Bolivia was handled at four tin-smelting plants in this country, which produced from it over 10,000 tons of metallic tin.

### Prices Current of Fine and Heavy Chemicals, Drugs, Essential Oils, Dyestuffs and Oils

NOTICE-The prices herein quoted are for large quantities in original packages. All prices are quoted on a basis of avoirdupois pounds and ounces and American gallons. Where the price of a product is indicated by two sets of figures separated by a dash (.16 — .19), it means that various manufacturers or importers of the item quote different prices which are all included within this range.

For the ready reference of foreign buyers, the following table of equivalents is published:

1 Imperial Gallon (Brit.)—1.20 Amer. Gallons 1 American Gallon—833 Imperial Gallon 1 American Gallon—3.79 liters 1 Liter—264 American Gallon 1 American Gallon (H<sub>2</sub>O) weighs 3 pounds 1 Pound (Avoirdupois) weighs .54 kilogram 1 Kilogram weighs 2.20 pounds (Avoirdupois)

#### Fine Chemicals

| Acetanilid, C.P., bbls., blktb   | 46                         |
|--|----------------------------|
| Acetone h 13   | 1/ 15                      |
| Acetohenetidin th. 2.25  | - 2.30<br>- 2.55           |
| Aconitine, Sulph., 14-oz. vialsea  | - 2.55                     |
| Aconitine, Sulph., 16-oz. vialsea Adeps Lanae, hydroustb   | 20<br>26                   |
| Anhydrous  | 26                         |
| Alcohol 188 proofgal   | - 4.70                     |
| 190 proof, U.S.Pgal  | - 4.75                     |
| Alcohol 188 proofgal. — 190 proof. U.S.Pgal. — Cologne Spirit, 190 proof. gal. — Wood, ref. 95 p.cgal. 1.30                          | - 5.00                     |
| Wood, ref. 95 p.cgal. 1.30   | - 1.33                     |
|  | - 1.36                     |
| Denatured, 180 proofgal. 48 188 proofgal. 52 Aldebude  |                            |
| 188 proofgal52   | 54                         |
|  | - 1.45                     |
| Aloin U.S.P., powd   | - 1.05<br>70               |
| Ammonium, Acetate, crysttb65   |                            |
| Ammonium, Acetate, crystlb65 Benzoate, cryst., U.S.Plb. — Bichromate, C. Plb95   | - 4.00<br>- 1.00           |
| Bromide, gran., bulktb54   | 55                         |
| Carb.Dom.U.S.kegs, powd, tb12  | 121/4                      |
| Chloride IISP th 24  | - 25                       |
| Hypophosphitetb. 2.10  | - 215                      |
| Iodidetb. —  | - 4.85                     |
| Hypophosphite b. 2.10 Iodide b Molybdate, Pure b Nitrate, cryst., C. P b25   | - 2.15<br>- 4.85<br>- 4.15 |
| Nitrate, cryst., C. Pfb25  | 26                         |
| Grantb. —  | 54                         |
| Oxalate, Puretb83  | 85<br>- 1.05<br>60         |
| Persulphatetb95  | - 1.05                     |
| Phosphate (Dibasic)fb50  | 60                         |
| Salicylate, U.S.Ptb95  | - 100 I                    |
| Amyl Acetate, bulk, drums.gal. 3.65  | - 3.75                     |
| Persulphate b95 Phosphate (Dibasie) b50 Salicylate, U.S.P. b. 95 Amyl Acetate, bulk, drums.gal. 3.65 Antimony Chlor. (Sol. butter of | -                          |
|  |                            |
| Needle powder  | 11                         |
| Needle powder b09 Sulphate, 16-17 per cent free sulphur b35 Antipyrine, bulk b. 6.00 Apomorphine Hydrochlorideoz Argols b02          | - 74                       |
| Antipyrine, bulk   |                            |
| Apomorphine Hydrochlorideoz  | -26.80                     |
| Arenis   | 11                         |
| Arsenic, redtb23   |                            |
| Whitetb09  | 1410                       |
| Aspirin  |                            |
| Arsenic, red   | -30.00                     |
| Sulphate, U.S.P., 1-oz.voz. 17.00  | -18.00                     |
| Barbital   | - 2.25                     |
| Barium Carb. prec., pure ib28  | 29                         |
| "Chlorate, pure  | 60<br>- 3.20               |
| Bay Rum, Porto Ricogal   | - 3.20                     |
| St. Thomas   | nda)                       |
| Demonanthal the A 25   | 450                        |
| Berberine, Sulphate, 1-oz.e.v.oz. 2.50<br>Bismuth Ammon. Citr., U.S.P.tb.  | - 3.00                     |
| Riemath Ammon City II.S.P.th   | - 3.00<br>- 5.80           |
| Citrate IISP   | - 3.60                     |
| Oxide nd   | - 3.90                     |
| Citrate, U.S.P   | - 3.60<br>- 3.90<br>- 3.30 |
| Salicylate   | - 3.05                     |
| Subbenzoate  | - 4.75                     |
| Subcarbonate, U.S.P  | - 3.30                     |
| Subgallate   | - 3.30                     |
| Subiodideb   | - 5.45                     |
| Subnitrate   | - 3.00                     |
| "Nominal.  | ,                          |
|  |                            |

|   | ,  |   |
|---|--|---|
| ĺ | Bismuth Subsalicylatetb 3.60   | Iron Citrate, U.S.P. V  |
|   | Tannate  | Iron Citrate, U.S.P., V<br>and Ammon. Citrate,U<br>Green scales, U.S.P.   |
|   | Tannate  | Iodide  |
|   | Bromides, See Potass. Brom., etc.  | Phosphate, U.S.P.   |
|   | Bromides, See Potass. Brom., etc. Bromine, tech., bulkb55 Cadmine Bromide, crystalsb. 1.75 - 1.80  | Phosphate, U.S.P. Pyrophosphate, U.S.P. *Kamala, U.S.P.   |
|   | 10dide   | Hanolin hydrous cans II   |
|   | Metal sticks   | Anhydrous, cans<br>Lead Iodide, U.S.P. VI<br>Licorice, U.S.P., Mass.  |
|   | Hydrobromide   | Licorice, U.S.P., Mass.   |
|   | Citsated, U.S.P  | Powdered<br>Lithium Carbonate   |
|   | Sulphate   | Citrate   |
|   | Cadmium Reomide, crystals, Ib. 1.75 - 1.80   | Lupulin Lycopodium, U.S.P. Magnesium Carb. U.S.P. Glycerophosphate Hyphophosphite Oxide, tins light Peroxide, cans Salicylate                           |
|   | Phosphate, Precip  | Magnesium Carb. U.S.P.  |
|   | Sulphocarbolatetb85 — .90 Calomel, see Mercury.  | Glycerophosphate  |
|   | Camphor, Am. ref'd bbls.hk.tb 3.30   | Oxide, tins light   |
|   |  | Peroxide, cans  |
|   | 24's in 1-lb, cartonlb, 3.35 - 3.40<br>32's in 1-lb cartonlb, 3.35 - 3.40<br>Japan refined, 2½'lb, slabs.lb, 3.30<br>Monobromated, bulklb, 4.50 - 4.55   | Salicylate<br>Sulphate, Epsom Salt  |
|   | Japan refined, 2½ tb. slabs.tb. — — 3.30<br>Monobromated, bulktb. 4.50 — 4.55  | U.S.P.  |
|   | Caramel  | Manganese Glycerophos<br>Hypophosphite, U.S.P.,   |
|   | Casein, C. P   | Lodide  |
|   | Cerium Oxalate   | Peroxide  |
|   | Heavytb04 — .06  | Menthol Tananese  |
|   | Chloral Hydrate, U.S.P. crystals, drums incl'd 100lb. lotslb. —  | Menthol, Japanese<br>Mercury, flasks, 75 tb.<br>Bisulphate  |
|   | Chloroform, drums, U.S.Ptb30<br>Cinchenidin, Alk, crystals-oz 1.06   |   |
|   | Chrysarobin, U.S.Ptb 4.00  | Blue Mass Powdered Blue Ointment, 30 p.c. Citrine Ointment  |
|   | Cinchonine, Alk., crystalsoz. — — .61<br>Sulphateoz. — — .35   | 50 p.c  |
|   | Circles Co. Torre Ciarras  | Calomel Amer  |
|   | Cocaine, Hydrochl. granoz. — 9.50<br>cryst., bulkoz. — 9.75<br>Cocoa Butter, bulkb. — 47   | Calomel, Amer<br>Corrosive Sublimate cr   |
|   | Cocoa Butter, bulktb47   | Powdered, Granular<br>Iodide, Green   |
|   | Cases, fingers   | Red   |
|   | Nitrateoz. — — 9.55<br>Phosphateoz. — — 8.00   | Yellow  |
|   | Sulphate   | Powdered  |
|   | Cod Liver Oil, Newf'dbbls. — —90.00 Norwegianbbl. — —135.00 Collodion, U.S.Pb35 —35 Corrosive Sublimated, see Mercury Coumarin, refined, see Aromatic Chemicals Cream of Tartar, cryst U.S.P.b53 —55 Powdered, 99 p.cb53 —55 Powdered, 99 p.cb53 —55 Creosote, U.S.P | Powdered  |
|   | Collodion, U.S.P   | with chalk  |
|   | Coumarin, refined, see Aromatic Chemicals  | Methyl salicylate, see A<br>Methylene Blue, medicin<br>Milk, powdered<br>Mineral Oil, white<br>Morphine, Acet., 25-oz.<br>Hydrochloride<br>Sulphate     |
|   | Cream of Tartar, cryst.U.S.P.lb5355  | Milk, powdered  |
|   | Creosote, U. S. P  | Morphine, Acet., 25-oz.   |
|   | Cresol, U.S.P  | Sulphate  |
|   | Dionin, See Morph. Ethyl Hydrochl.   | Sulphate<br>Diacetyl. Alkaloid 10-0   |
|   | Emetine, Alk., 15 gr. vialsea 2.00   | Diacetyl. Alkaloid 10-0<br>Diacetyl. Hydel<br>Ethyl Hydel   |
|   | Hydrochloride, U.S.Poz. 34.00 -35.00<br>15 gr. vialsea 1.35  | Naphthalene, See Coal 7   |
|   | Ensom Salts see Mag. Sulphate  | Naphthalene, See Coal 7<br>Olive Oil, See Oils, Pg.<br>Opium, cases. U.S.P  |
|   | Ether, U.S.P., Conc  | Granular<br>Powdered, U.S.P   |
|   | Nitrous, conc  | Oxgall, pure U.S.P  |
|   | Anaesthesia  | Papain<br>Paraffin White Oil, U.S.  |
|   | Eucalyptol, U.S.P  | Paraffin White Oil, U.S.  |
|   | Eucalyptol, U.S.P.   1b. 1.20 - 1.25<br>Formaldehyde   .2222½<br>Gelatin, silver   .15   1.10 - 1.15   | Petrolatum, light amber b   |
|   | G010   | Paris Green, kegs Petrolatum, light amber to Cream White Lily White Snow White  |
|   | Glycerin, C P.,  | Snow White  |
|   | C. P. in cans  | Phosphorus, vellow  |
|   | Dynamite, drums included. b 191/2<br>Saponifications, loose b 13   | Phosphorus, yellow  |
|   | Soap Lye, loose  | Pilocarpine   |
|   | Guaiacol, liquid   | Determine seetate   |
|   | Carbonatetb12.00   | Bicarbonate, U.S.P<br>Bisulphate  |
|   | Guarana  | C. P  |
|   | Importedgross 6.00   | Bromide Crystals, bull<br>Granulated  |
| , | Hexamethylenetetraminetb 1.00 Hydrogen Peroxide, U.S.P., 10 gr. lots 4-oz. bottlesgross 7.25   |   |
|   | 4-oz. bottlesgross 7.25  | Chromate, crystals, yel   |
|   | 12-oz. bottlesgross — —10.25   | Citrate, bulk, U.S.P.   |
|   | Hydroquinone, bulktb. 2.00 - 2.05  | Chlorate Chromate, crystals, yel tech 1-lb. c. b. 10. Citrate, bulk, U.S.P. Glycerophosphate, 75% Hypophosphite, bulk Lactophosphate Permangnate U.S.P. |
|   | Iodides, See Potass. Iodide, etc.  | Iodide, bulk  |
|   | Iodoform, Powdered, bulktb 5.25  |   |
|   | Crystals   | *Nominal  |
|   |  |   |

|     |  |                                |                            | _  |
|-----|--|--------------------------------|----------------------------|----|
|     | Iron Citrate, U.S.P., VIII. tb. and Ammon. Citrate, U.S.P. tb. Green scales, U.S.P tb. Iodide tb. Phosphate, U.S.P tb. Pyrophosphate, U.S.P tb. *Kamala, U.S.P tb. *Kamala, U.S.P tb.  | -                              | - 12<br>- 14               |    |
| ,   | Green scales, U.S.Ptb.   | =                              | -1.4                       | 1  |
| 4   | Phosphate, U.S.P   | _                              | - 4.2<br>- 1.0             | 5  |
|     | Pyrophosphate, U.S.P   | =                              | - 1.0<br>- 1.1<br>- 4.0    | 3  |
|     | Lanolin, hydrous, cans U.S.P.tb.   | _                              |                            |    |
|     | Anhydrous, canstb.   |                                | 2<br>2                     |    |
|     | Lanolin, hydrous, cans U.S.P.tb, Anhydrous, canstb. Lead Iodide, U.S.P. VIIItb, Licorice, U.S.P., Masstb, Powderedtb.  | 60                             | - 3.4                      |    |
|     | Powderedib.  | .60<br>.95                     | - 1.00                     |    |
|     | Lithium Carbonate  | -                              | - 1.50                     |    |
|     | Lupulintb.   | 2.25                           | - 25                       |    |
|     | Lycopodium, U.S.P  | 1.75                           | - 1.80<br>13               | )  |
|     | Glycerophosphate   | -12                            | - 4.5                      | 35 |
|     | Hyphophosphite   | 1.65                           | - 1.70                     | 1  |
|     | Peroxide, cansfb.  | _                              | - 2.1                      |    |
|     | Lupulin U.S.P. bb. Lycopodium, U.S.P. bb. Magnesium Carb. U.S.P.bbls.bb. Glycerophosphate bb. Hyphophosphite bb. Oxide, tins light bb. Peroxide, cans bb. Salicylate bb. Sulphate, Epsom Salt, tech. U.S.P. 100-lbs. Management Glycerophos  | .60                            | 65                         |    |
|     | 100-tbs.   | 2 50                           | - 2.25                     |    |
| 1   | Manganese Glycerophos th   | 3.25                           | -2.75 $-3.35$              |    |
| 1   | Manganese Glycerophoslb. Hypophosphite, U.S.P., VIIIlb. Iodidelb. Peroxidelb. Sulphate grantle th.   | 2.00                           | -2.10                      | 1  |
| 1   | Peroxideth.  | .75                            | - 5.00<br>80               |    |
|     | Sulphate, crystalstb.  | -                              | 55                         |    |
| 1   | Sulphate, crystalstb.  Menthol, Japanesetb.  Mercury, flasks, 75 tbea.l  | 8.75                           | - 9.00<br>-110.00          |    |
| ١   | Mercury, flasks, 75 tbea.l<br>Bisulphatetb.<br>Blue Masstb.  | -                              | - 1.34<br>84<br>86         |    |
| -   | Blue Mass b. Powdered b. Blue Ointment, 30 p.c. b. So p.c. b. Citrine Ointment. b.   | _                              | 84<br>86                   |    |
|     | Blue Ointment, 30 p.ctb.   | -                              | 82                         |    |
|     | Citrine Ointment   | =                              | - 1.15                     |    |
| 1   | Calomel, Amer  | _                              | - 1.76<br>- 1.63           |    |
| 1   | Powdered, Granularb. Iodide, Greenb.   | _                              | - 1.58                     |    |
| 1   | Red  | _                              | - 4.11<br>- 4.21           |    |
| 1   | Red bb. Yellow bb. Red Precipitate bb. Powdered bb. White Precipitate bb. Powdered bb. with chalk bb.  |                                | - 4.11                     |    |
| 1   | Powdered   | =                              | - 2.03                     |    |
|     | White Precipitate  | =                              | - 2.05<br>- 2.18           |    |
| 1   | with chalkb.   |                                | 84                         |    |
| 1   | Methyl salicylate, see Aromatic  | Che                            | micals                     |    |
| 1   | Milk, powderedb.   | .22                            | 23                         |    |
| ı   | Morphine, Acet., 25-oz.,, 02.  | 1.00                           | - 8.80                     |    |
| 1   | Hydrochlorideoz.   |                                | - 8.80<br>- 8.80           |    |
| ı   | Diacetyl. Alkaloid 10-oz oz.   | _                              | -13.10                     |    |
| 1   | Diacetyl. Hydeloz.   | _                              | -11.85 $-13.45$            |    |
| 1   | Powdered by the power of the po | ducts.                         |                            |    |
| 1   | Olive Oil, See Oils, Pg. 27  | 7.50                           | _ 8.00                     |    |
|     | Granulartb.  | -                              | - 9.25                     |    |
| 1   | Powdered, U.S.PID.   | 1 50                           | - 1.55                     |    |
| 1   | Panain   | 3.50                           | - 4.00                     |    |
| 1   | Oxgai, pure U.S.P. and Papain b. Paraffin White Oil, U.S.P. gal. Paris Green, kegs betrolatum, light amber bbls.tb. Cream White b. Lily White b. Snow White b. Snow White b. B. Show White Show Show Show Show Show Show Show Show  | 3.10                           |                            |    |
|     | Petrolatum, light amber bbls.fb.   | .30<br>.051/2<br>.07<br>.091/4 | 31<br>06                   |    |
| 1   | Cream White  | .07                            | 08<br>10                   |    |
| 1   | Snow White   | .13                            | 13<br>- 1.80               |    |
| . 1 | Phenolphthalein  | 1.75                           | 35<br>70                   |    |
|     | Phenolphthalein  | .68                            | 70                         |    |
|     | Pilocarpine  | =                              | - 9.50<br>- 6.50           |    |
| 1   | Potassium acetate  | 22                             | - 1.00<br>23               |    |
| 1   | Rieulphate   | .22<br>.45<br>.75              | 60                         |    |
| 1   | L. F   | .75                            | 85                         |    |
| 1   | Bromide Crystals, bulkID.  | .50                            | 50                         |    |
|     | Granulatedb.<br>Chlorateb.   | .19                            | 20                         |    |
| 1   | Granulated bb. Chlorate bb. Chromate, crystals, yellow, tech. 1-lb. c. b. 10. bb. Citrate, bulk, U.S.P. bb. Glycerophosphate, 75% or. Hypophosphite, bulk or. Lactophosphate c. or. Permanganate, U.S.P. bb.   | -                              | 75<br>- 1.84               |    |
| -   | Citrate, bulk, U.S.P   | 1.75                           | 1 90                       |    |
| -   | Hypophosphite, bulkoz.   | 1.75                           | - 2.00<br>- 3.55<br>- 1.00 |    |
| 1   | Iodide, bulk   | 3.50                           | - 1.00                     |    |
| -   | Lactophosphateoz.<br>Permanganate, U.S.Pfb.  | .55                            | 36                         |    |

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#### Fine Chemicals, Acids, and Crude Drugs

Acids

|  | me one  | - |
|--|---|---|
| Potassium Salicylateth. Sulphate, C.Pth. Tartrate, powderedth. Procaine, oz. bottles   | 1.55 - 1.60   | Ī |
| Tartrate, powderedb.   | $\begin{array}{cccc} 1.11 & -1.16 \\ - & -1.25 \\ 7.00 & -7.50 \end{array}$ |   |
| Procaine, oz. bottles  | 7.00 — 7.50<br>1.50 — 1.60  |   |
| Quicksilver, See Mercury   |   |   |
| 1-oz. tinsoz.  |   |   |
| 1-oz. tins   | 1.35 — 1.40<br>1.35 — 1.40  |   |
| Bisulphate, 100-oz tinsoz.   | 80  | ı |
| Alkaloid   | 1.17  |   |
| Citrateoz.   | 1.17<br>1.17<br>1.17  |   |
| Dihyd'chloride   | 1.17  |   |
| Hypophosphiteoz.   | 1.07<br>1.17<br>1.07  |   |
| Salicylateoz.  | 1.07  |   |
|  |   |   |
| Quinidine Alk. crystals, tins oz.  Sulphate, tinsoz. Resorcin crystals, U. S. P. lb. Rochelle Salt, crystals, bxs. lb. Powdered, bblsb. Rosewater, tripleb. Saccharin, U.S.P., soluble. lb. Salcin, bulkb. Salicin, bulkb. Salicin, bulkb. Salicin, bulkb. Salicin bulkb. Saltin bulkb. Salver lbb. Powderedb. Sedilitz Mixture, bblsb. Silver nitrate, 500 oz. lots.oz. Sosp. Castile, white, pureb. Powd. U.S.P., bblsb. Aarseiles, whiteb. Green, pureb.  | 6.00 - 6.25   |   |
| Rochelle Salt, crystals, bxstb.  | 43  |   |
| Rosewater, triple  | 11.50 -12.00  |   |
| Saccharin, U.S.P., solublefb. U.S.P., Insolublefb.   | 3.50 — 3.75<br>3.50 — 3.75  |   |
| Salicin, bulktb.   | 30.00<br>.8590  |   |
| Santonin, cryst., U.S.P  | 110.00  |   |
| Seidlitz Mixture, bbls1b.  | $\frac{-110.00}{-33\frac{3}{2}}$ .73 $\frac{-34}{26}$                       |   |
| Silver nitrate, 500 oz. lotsoz.  | 33½<br>.7374<br>36  |   |
| Powd. U.S.P., bblstb.  | .4142   |   |
| Green, pure  | .1920<br>.1516  |   |
| Sodium, Acetate, U.S.P., gran.lb.  | .1516<br>.2529  |   |
| Benzoate, gran. U.S.Ptb.   | .8085   |   |
| Green, pure b. Ordinary b. Sodium, Acetate, U.S.P., gran. b. Benzoate, gran. U.S.P. oblsb. Bromide, U.S.P., bulk b. Cacodylate   | .021/4021/2   |   |
| Cacodylateoz.<br>Chlorate, U.S.P. 8th Rev.   | 1.40  |   |
| Granular ch 10   | .15½— .16   |   |
| Citrate, U.S.P., CrystVIIItb.  | 1.15  |   |
| Cyanide 96-98, see Heavy Che   | — — 1.30<br>micals  |   |
| Cacodylate   | 2.15 - 2.20<br>1.00 - 1.05  |   |
| Iodide, bulktb. Peroxidetb.  | 4.05<br>3540  |   |
| Phosphate, U.S.P., grantb.   | . 13540   |   |
| Driedtb.   | .1718<br>.4045  |   |
| Sulph. (Glauber's Salt)tb.   | .55 — .60<br>.0134— .0134   | l |
| Iodide, bulk b. Peroxide b. Phosphate, U.S.P., gran b. Recryst b. Dried b. Salicylate, U.S.P. b. Sulph. (Glauber's Salt). b. Strontium Brom. Cryst, blk.b. Carbonate, pure b. Iodide, bulk b. Salicylates, U.S.P. b. Strychnine Alkd., cryst oz. | .5051<br>.4045  | ľ |
| Iodide, bulkb.   | 3.70  | l |
| Salicylates, U.S.P   | .5055<br>.4550  | l |
| Acetateoz.   | 1.80<br>1.80  | l |
| Nitrate  | 1.80<br>1.40  | l |
| Sugar of Milk, Powderedtb.   | .34 — .36   | l |
| Sulphonal, 100-oz. lota  | 1.15 - 1.20   | l |
| Sulphonnethylmethane, U.S.P. D. Sulphonnethane, U.S.P  | 16.00 —16.75<br>13.00 —14.00  | l |
| Nitrate  | 2.95 — 3.15<br>3.10 — 3.40  | l |
| Flowers, 100 p.c. pure100 fbs.   | 3.30 - 3.6017   | l |
| Precip. U.S.P. tb. Lac Sulphur tb. Tartar Emetic, techb.   | =12   | l |
| U.S.Pb.  | .67 — .671/2<br>.73 — .731/2  | l |
| U.S.P. b. Terpin Hydrate b. Theobromine Alkaloid b. Thymol, crystals, U.S.P. b. Iodide, U.S.P. bulk b. Tin, bichloride, see Heavy Che Oxide, 500 fb. bbls bls bb. Toluol. See Coal Tar Crudea  | .84 — .85<br>— —12.00   | l |
| Thymol, crystals, U.S.P  | 6.50 - 7.00   | l |
| Tin, bichloride, see Heavy Che   | 11.90 —12.00<br>emicals   | l |
| Oxide, 500 tb. bblstb.   | 60  | ı |
| Turpentine, venice, Irue   | 4.30 - 4./3   | l |
| Spirite see Naval Stores   | .1413   | l |
| Vanillin, see Aromatic Chemic<br>Veronal (See Barbital)  | als   | l |
| witch mazel, Ext., dole dist.,   | 115   | 1 |
| Zinc Carbonatetb.  | =16   | 1 |
| Iodide, bulkb.   | .4550<br>4.15   | 1 |
| Zinc Carbonate b. Chloride, U.S.P. b. Iodide, bulk b. Metallie, C. P. b. Oxide, U.S.P., bbls b. Scearate b.  | 4.15<br>.4575<br>.2223  | ۱ |
| Stearate   | .3842   | ١ |
| (-010110E)   |   | f |

| Acetic, 28 p.c See Heavy Cher<br>Glacial, See Heavy Chemicals<br>Acetyl-salicylicb.<br>Benzoic, from gumtb.<br>U.S.P., ex toluolb. | .80 — .95<br>.85 — .90                            |
|--|---|
| Boric, cryst., bblstb. Powdered, bblstb.   | .13¼14  |
| Butyric, Tech., 60 p.c   | 1.45 — 1.55<br>6.00 — 6.20                        |
| Liquid, U.S.Pb.<br>Crude, 25%gal.  | $\frac{-}{.24}19$                                 |
| Chromic, U.S.P. tb. Chrysophanic tb. Citric, crystals, bbls tb. Powdered tb. Second hands tb.                                      | 1.25 - 1.50                                       |
| Cresylic, 95-100 p.cgal.   |   |
| Cresylic, 95-100 p.cgal. Formic, 75 p.c., techfb. Gallic, U.S.P., bulkfb.  | .75 — .85<br>.36½— .38<br>1.40 — 1.45<br>— — 2.50 |
| Glycerophosphorie, 25 p.eb. Hydriodic, sp. g. 1.150oz. Hydrofluoric, see Heavy Chemi   | 19  |
| 20 a c tach b.c.tech.ib.   | 50 - 60   |
| Hypophosphorous, 50 p.etb. U.S.P., 10 p.etb. Lactic, U.S.P., VIIItb. U.S.P., IX  | 2.40 - 2.50<br>.6065<br>2.20<br>2.40              |
| Muriatic see Heavy Chemicals   | <b>— — 8.50</b>                                   |
| Nitric, see Heavy Chemicals  | .2023   |
| Oxalic, cryst., bblsb. Picric, kegs, see Intermediates   | .23 — .28<br>.23 — .24                            |
| Phosphoric, 85-88p.c.syr.U.S.P.fb. 50 p.c. tech  | .3233   |
| Pyrogallie, resublimed   | 2.30 - 2.35                                       |
| Pyroligneous, purifiedtb. Technicalgal.  | .0810   |
| Salicylic, Bulk, U.S.P   | 50  |
| Sulphuric, C.Ptb. Sulphuroustb.  | .08 — .09<br>.06 — .061/2                         |
| Tannic, technicaltb.   | .5060   |
| U.S.P. hulkth.   | -1.30   |
| Tartaric Crystals, U.S.Ptb. Powdered, U.S.Ptb.   | .74741/2  |
| Powdered, U.S.Ptb.   | .741/275  |
| Trichloracetic, U.S.Pfb.   | 4.40 — 4.59                                       |

#### Crude Drugs

#### MISCELLANEOUS

| Agar, Agar, No. 1              | _    | _  | .85    |
|--------------------------------|------|----|--------|
| No. 2tb.                       | -    | _  | .80    |
| No. 3tb.                       | -    | -  | .75    |
| Almonds, bittertb.             | .45  | _  | .50    |
| Sweettb.                       | .45  | _  | .50    |
| Mealtb.                        | .47  | -  | .52    |
| Ambergris, blackoz.            | -    | -1 | 0.00   |
| Grey                           | -    | -2 | 3.00   |
| Areca Nutstb.                  | -    | -  | .30    |
| Powderedtb.                    | .33  | _  | .35    |
| Balm of Gilead Buds tb.        | 3.50 | _  | 3.75   |
| Burgundy Pitch, Dom fb.        | .09  | _  | .091/2 |
| Cantharides, Chinese tb.       | 1.15 | _  | 1.20   |
| Powderedtb.                    | 1.25 | -  | 1.30   |
| Russian, wholetb.              | -    | _  | 3.50   |
| Powderedtb.                    | 3.75 | -  | 4.00   |
| Charcoal Willow, powderedtb.   | .055 | 6  | .07    |
| Wood, powdered                 | .04  | -  | .05    |
| Civet                          | 2.50 | -  | 2,75   |
| Colocynth, Apples, Trieste fb. | .30  | -  | .35    |
| Pulp, U.S.Ptb.                 | .35  | -  | .36    |
| Spanish Applestb.              | .45  | -  | .55    |
| -Momina:                       |      |    |        |

| 1 | Cuttlefish Bones, Trieste ib.                        | .60    | -   | .62  |
|---|--|--------|-----|------|
| ١ | Jewelers, largetb.                                   | 1.70   | - 1 | 1.75 |
| ١ | Smalltb.   | 1.55   | =   | 1.60 |
| 1 | Dragon's Blood, Masstb.                              | .35    | _   | 40   |
| 1 | Reedstb.   | 2.50   | _   | 2 75 |
| 1 | Ergot, Russiantb.                                    | -      | -   | 4.00 |
| ı | Spanishtb.   |        | _   |      |
| 1 | Grains of Paradisetb.<br>Hops, N. Y., 1918, primetb. | -      | -   | .60  |
| ١ | Pacific Coast, 1918, prime Ib.                       | .65    | -   | .80  |
| 1 | Isinglass, American (see Agar                        | leen ! | -   | .0/  |
|   | Russiantb.   | -Bar)  | -1  | 0.00 |
| 1 | Kola Nuts, West Indiestb.                            | .19    |     |      |
| 1 | Honey, Califtb.                                      |        | _   | 22   |
| 1 | Manna, large flaketb.                                | .75    |     |      |
|   | Small flaketb.                                       | .57    | -   | .60  |
|   | Moss, Icelandtb.                                     | .21    | -   | 23   |
|   | Irishtb.   | .11    | _   | .15  |
| 1 | Musk, pods, Caboz.                                   | _      |     | _    |
|   | Tonquinoz.   | 25.00  | -2  | 6.00 |
|   | Grain, Cabtb.  | 23.00  | -2  | 5.00 |
|   | Tonquintb.   | 41.00  |     | 3.00 |
|   | Nux Vomica, whole                                    |        |     |      |
|   | Powdered   |        | -   | .13  |
|   | Poppy Headsb.  |        |     |      |
|   | Sandalwoodtb.  | .50    |     |      |
| 1 | Groundfb.  |        | _   | .00  |
|   | Scammony, resintb.                                   |        |     |      |
|   | Powderedfb.  |        |     |      |
|   | Spermaceti, blockstb.                                | .30    | _   | .31  |
|   | Storax, liquid casesth.                              | 1.50   | _   | 1.60 |
|   | Tamarinds, bblstb.<br>Kegsper keg                    | .123   | 4   | .13  |
| 1 |  | -      | -   | 6.25 |
| - | BALSAMS  |        |     |      |
|   | Copaiba, Paratb.                                     | .45    | _   | .50  |
| 1 | South American                                       |        | _   | .60  |
|   | Fir, Canadatb.                                       | _      | -   | 9.00 |
|   | Oregongal.   | 1.55   | _   | 1.70 |
|   | Perub.   |        |     |      |
|   | Tolutb.  | 1.50   | -   | 1 00 |
|   | RARKS  |        |     |      |

#### BARK

| Angostura   | .28 — .30<br>.17 — .21<br>.22 — .28<br>.50 — .60<br>.35 — .40              |
|---|--|
| Buckthorn b. Calisaya b. Cascara Sagrada b. Cascarilla, quills b. Siftings b. | 60<br>.95 - 1.00<br>.1718<br>.2425<br>.1213                                |
| Chestnuttb.   | .1010%   |
| Cinchona, red quillstb.  Broken b.  "Yellow "quills" tb.  Broken b.           | .75 — .85<br>.55 — .60   |
| *Brokenb.   | .6065 ,  |
| *Loxa, pale, bs   | ===  |
| *Maracaibo, yellow, powdth  |  |
| Condurangotb.   | .1010%<br>.2022<br>.4245   |
| Cramp (true)  | 11 12  |
| Dogwood, Jamaica  | .091/410   |
| Elm, grinding   | .2125 $.4042$  |
| Hemlocktb.  | .1008  |
| Lemon Peel  | .22 - 23   |
| Oak, red  | .0809  |
| Orange Peel, bitter   | 12   |
| Malaga, Sweet   | .1213  |
| Prickly Ash, Southernfb. Northernb.   | .1820  |
| Pomegranate of Rootfb. of Fruitfb.  | 25 - 28  |
| Sassafras, ordinarytb.  | .3545 $.4555$  |
| Simaruhatb.   | .6065  |
| Soap, wholetb.  | 25 - 26  |
| CrushedID.  | $\frac{.22}{.60} - \frac{.23}{.70}$  |
| Wahoo, of Roottb.   | .30 — .35  |
| Willow, Black   | .15 — .17<br>.25 — .26<br>.22 — .23<br>.60 — .70<br>.30 — .35<br>.06 — .07 |
| White Pine Rossed   | .0708  |
| White Poplar  | .0708  |
| Wild Cherrytb.  | .0800  |
| *Nominal  |  |
|   |  |

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Butyric Acid (All Grades)

Amyl Butyrate Amyl Valerate **Amyl Acetate** (All Grades)

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| BEANS                                      |                            | LEAVES AND HE                               | RBS   | Colchicumtb.  | 1.60 - 1.65   |
|--|----------------------------|---|---|---|---|
| Calabartb.                                 | .4550                      | *Aconitetb.                                 | .60 — .70   | Colombo, whole                                      | .24 — .29<br>.25 — .26  |
| St. Ignatiustb. St. John's Breadtb.        | .0935                      | Balmony                                     | .1113   | Culver'sb.  | .2324   |
| Tonka, Angosturatb.                        | -1.75                      | Bay, true                                   | 30  | Cranesbill, see Geranium. Dandelion, Euglish        | .2426   |
| Parab.<br>Surinamb.                        | 1.15 - 1.25                | Boneset, leaves and topsfb.                 | $\begin{array}{ccc} .16 & - & .18 \\ 2.10 & - & 2.15 \end{array}$ | Americantb.   | .2122   |
| Vanilla, Mexican, whole                    | 4.50 - 5.50                | Buchu, short                                | 2.25 - 2.50   | Doggrass Domtb.                                     | 3945  |
| Bourbontb.                                 | 3.25 - 3.50                | Cannabis, true, importedb.                  | .2955   | Cut Bermudab.                                       | .29 — .30   |
| South American th                          | 3 25 - 3 75                | Americanfb.<br>Catnipfb.                    | .1516   | Echinaceatb. Elecampanetb.                          | .3842   |
| Tahiti, Yellow Labelth.                    | 2.75 - 3.00                | Chestnut                                    | .0607   | GalangalID.   | .2830   |
| Green Labeltb.                             | 2.75                       | *Coca, Huanucotb.                           | .35 — .38   | Gelsemiumtb.  | .13 — .14<br>.14 — .15  |
| BERRIES                                    |                            | Truxillotb.                                 | .70 — .75   | Caranium  | 14  |
| Cubeb, ordinarytb. XXtb.                   | 1.30 - 1.35                | Coltsfoot                                   | .1819   | Ginger, Jamaica, unbleachedlb. Bleached             | .22 — .23<br>.26 — .27  |
| Powderedtb.                                | 1.35 — 1.40                | Corn Silktb.                                | .1219   | *Cineana Cultivatedth.                              |   |
| Fish                                       | .6065                      | Damianatb. Deer Tonguetb.                   | .1214   | *Ginseng, Cultivatedtb. Wild, Easterntb.            | 5.00 -10.00   |
| Juniper                                    | .40 — .45                  | Digitalis, Domestictb. Importedtb.          | .2325   | Northwestern  | 5.00 —22.00   |
| Pokeb.                                     | .0810                      | Eucalyptustb.                               | .3032 $.1011$   | Golden Sealtb.                                      | 5.75 - 6.00   |
| Prickly Ashtb.                             | .14 — .15<br>.15 — .16     | Eucalyptus                                  | .1516   | PowderedIb.   | 6.25 — 6.75   |
| Saw Palmettofb.                            | .15 — .16<br>.25 — .30     | Henbane, German                             | .14 — .15   | "Hellebore, Black, Imported.fb. White, Domestic     | 1.40 — 1.50<br>.20 — .21  |
|  | .230                       | *Russian                                    | 1.20 - 1.25   | PowderedID.   | .2340   |
| FLOWERS                                    |                            | Domestic                                    | .45 — .50<br>.65 — .68  | Imported  |   |
| Arnica                                     | 45<br>80                   | Horehoundtb.                                | .1416   | lpecac, Cartagenab. Powderedb.                      | 2.80 — 3.00<br>— — 3.25   |
| Boragetb.                                  | .6070                      | *Jaboranditb.<br>Laureltb.                  | .45 — .50<br>.08½— .09  | Rio, whole  | 2.80 - 3.00   |
| Calendula Petals                           | 2.75                       | Life Everlastingtb.                         | .1011   | DowderedID.   | 3.25<br>.7080   |
| Hungarian type                             | .4850                      | Lobeliab.                                   | .21 — .25<br>.22 — .25  | Jalap, whole  | .1819   |
| Romantb.<br>Spanishtb.                     | .3540                      | Matico                                      | .2526   | Lady Slipper  | .85 — .90<br>.80 — .90  |
| Clover Topstb.                             | .1145                      | *Marjoram, African                          | .5052<br>.5051  | Licorice, *Russian, cutfb. Spanish natural balesfb. | .1719   |
| Dogwood                                    | .17 — .18                  | French                                      | .16 — .17   | Selectedb. Powderedb.                               | .27 — .28<br>.24 — .25  |
| Insect, openfb.                            | .50 — .55<br>— — .50       | Patchoulitb. Pennyroyaltb.                  | .76 — .83<br>.12 — .16  | Toyage, American                                    | .73 — .75   |
| *Powd. Flowers and stemstb.                | .5560                      | Peppermint, Americantb.                     | .2629   | ManacaID.   | .27 — .29<br>.22 — .23  |
| Powd. Flowersth.                           | 45<br>.6570                | Pichi                                       | .1112   | Mandraketb.   |   |
| *Koussotb.                                 | 60                         | Prince's Pinetb. Plantaintb.                | .21 — .22<br>.12 — .14  | Musk, Russian                                       | .2223<br>.2122  |
| Lavender, ordinarytb.                      | .24 — .25                  | Pulsatilla                                  | 2.50 - 3.00   | Verona  | .2122   |
| Linden, with leaves                        | .35 — .37                  | Queen of the Meadowtb.<br>Rose, redtb.      | 1.011 $1.25 - 1.28$   | Pareira Brava                                       | .2931   |
| Without Leavestb.                          | .65 — .70<br>1.00 — 1.10   | Rosemaryfb.                                 | .1214   | Pink true ID.                                       | .7580 $.1620$   |
| Malva, blue                                | .5560                      | Sage, Austrian, stemlessfb.                 | 65  | Pleurisy  | .1314   |
| Orange                                     | 1.95 - 2.00                | *Grinding                                   |   | Rhatany   | .1214   |
| Poppy, red                                 | .95 - 1.10                 | Greek, stemlesstb.<br>Spanishtb.            | $.1010\frac{1}{4}$<br>$.07\frac{1}{2}07\frac{3}{4}$               | *Rhubarb Shensi                                     | ===   |
| Saffron, American                          | . <b>69</b> — . <b>70</b>  | Savory                                      | $.2020\frac{1}{2}$  | Cuts  |   |
| Valenciatb.                                | 14.00 —15.00               | Senna, Alexandria, wholetb.<br>Half Leaftb. | .75 — .80<br>.60 — .63  | High Driedb.  | 1.65 - 1.90   |
| Tilia (see Linden)                         |                            | Siftingstb. Powderedtb.                     | .2425   | Sarsaparilla, Hondurasb. American                   | .65 — .66<br>.38 — .43  |
| Aloes, Barbadostb.                         | .98 — 1.05                 | Tinnevellyb.                                | .4042   | Mexican   | .45 — .50   |
| Capetb.                                    | .1315                      | Podstb.<br>Skullcap, Westerntb.             | .1012   | Senega Northern                                     | 1.70 - 1.75 $1.70 - 1.75$   |
| Curacao, casestb.                          | .0909½<br>.8590            | Spearmint American                          | .40 — .45<br>.20 — .22  | Southerntb. Serpentariatb.                          | 7580  |
| Socotrine, whole                           | 1.00                       | Squaw Vine                                  | .27 — .30   | Skunk Cabbagetb.                                    | .2022   |
| Ammoniac, tearsb.                          |                            | Stramonium                                  | .30 — .32<br>— — .15  | Skunk Cabbagetb. Snake, Canada naturaltb.           | .3840<br>.5055  |
| Arabic, brats                              | .3540                      | Tansy                                       | .1111%  | Strippedb. Spikenardb.                              | .3032   |
| Sorts Amber                                | .16161/2                   | French                                      | .141472   | Cauill white  | $\frac{.12}{.13} - \frac{.13}{.14}$   |
| Powdered                                   | .2730                      | Witch Hazelb.                               | .08 — .10   | Stillingia  | .1214   |
| Asafoetida, whole, U.S.Ptb. Powderedtb.    | 3.50 — 3.75<br>5.75 — 6.00 | Wormwood imported                           | .14 — .15   | Tumparia Madeas                                     | .111/213  |
| Benzoin, Siamtb.                           | .80 — 1.00                 | Yerba Santa                                 | .1  | Alenny  | .0909%  |
| Sumatratb. Camphor, ref. See Pg. 32 Col. 2 | .36 — .38                  | Aconite, U.S.P                              | .55 — .65   | China   | 5055  |
| Catechu                                    | .1115                      | German                                      |   | Unicorn false (Helonias)tb.                         | .5560   |
| Chicle, Mexicanb.                          | 1.40 - 1.50 $.2830$        | Alkanet                                     | $\frac{2.25}{.70} - \frac{2.50}{.72}$                             | Valerian, Belgiantb.                                | .7075   |
| Euphorbium                                 | .3540                      | Wholetb.                                    | .3540   | "German   | 1.25  |
| Galbanumtb. Gambiertb.                     | 1.38 — 1.45                | Angelica Americantb.                        | .35 — .37   | *ishanese   | $\frac{-1.25}{.13}$   |
| Gambogetb.                                 | 1.80 - 1.85                | Importedtb.                                 | .59 — .69   | Yellow Dock   | 20  |
| Guaiactb.<br>Hemlocktb.                    | .70 — 1.00<br>.83 — .90    | Arnica                                      | -85 - 1.00 $10$   | SEEDS   |   |
| Kino                                       | .49 — .59                  | Bermudatb.                                  | 60  | Anise, Levant                                       | .20%21  |
| Mastic                                     | 1.10 — 1.15<br>.85 — .90   | St. Vincent                                 | .2021<br>.1012  | Star  | .18 — .181/s<br>.20 — .201/s  |
| Sorts                                      | .70 — .78                  | Bearsfoot                                   | .0910   | Spanishtb. Canary, *Spanishtb.                      |   |
| Siftingsb. Olibanum, siftingsb.            |                            | Belladonna                                  | .50 — .65   | MoroccoID.  | 1010%   |
| · Tearstb.                                 | .1830                      | Bethtb.                                     | .1417   | South American                                      | .09½— .10<br>.16½— .17  |
| Opium, See Pg. 33, Col. 3                  | .4548                      | Blood                                       | -3537   | Caraway, Africantb. Dutchtb.                        | .1515½<br>.6869   |
| Sandarac                                   |                            | Blueflagb. Bryoniab.                        | .32 — .34<br>.24 — .26  | Domestic  |   |
| Sorts                                      | 100 - 150                  | Bryonia                                     | .18 — .19   | Cardamom, bleachedfb.                               | $\begin{array}{cccc} 1.50 & -2.00 \\ .39 & -0.40 \\ 2.00 & -2.10 \end{array}$ |
| Storax, Art. cases                         | 1.60 - 1.65                | American                                    | .16 — .17<br>.60 — .65  |   | 2.00 - 2.10 $3940$  |
| Tragacanth, Aleppo first                   | 28.00<br>4.25              | Unbleached, naturalfb.                      | .18 — .19   | Conium  | .051/4051/2   |
| Secondstb.                                 | 3.50 - 3.75                | Cohosh, blackfb.                            | .0910   | Morocco, Unbleachedtb.                              | .0606/2   |
| *Thirds                                    | 2.50                       | Blue  | .1415   | Bleachedtb.   | .0372 .10   |

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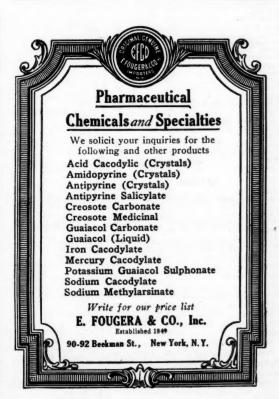
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### Essential Oils, Oleoresins, Aromatic and Heavy Chemicals

| Cumin, Levanttb.   |                                  | 1   |
|--|----------------------------------|-----|
| *Maltatb. Moroccotb.   | .111/2 .12                       | ١   |
| Dilltb.  | 15 - 151/                        | 1   |
| Fennel, French   | .1414%                           | 1   |
| *German, smallfb.  |                                  | 1   |
| *Roumanian, smallfb.   |                                  | ١   |
| Flax, wholeper bbl. 2  | 0.00 -22.00                      | 1   |
| Groundtb.  | .1213                            | I   |
| Foenugreektb.  | .041/205                         | 1   |
| Hemp, Manchuriantb.  | .09091/2                         | 1   |
| Chiliantb.   | .09091/2                         |     |
| Job's Tears, whitefb.  | .05% .06                         | ١   |
| Larkspurtb.  | .2930                            | 1   |
| Lobeliatb.   | .6065                            | ı   |
| Mustard, Bari, Browntb.  |                                  | 1   |
| *Dutchtb.  |                                  | ı   |
| Bombay, Brown  | .151/216                         | ı   |
| California browntb.  | .21½— .22<br>.08 — .08½          | ١   |
| Chinese, Yellowtb.   | .08081/2                         | 1   |
| English, vellowth.   | 25 - 26                          | 1   |
| Parsleytb.   | .2829                            | ١   |
| Parsley tb. Poppy, Dutch tb. Russian blue tb. Indian tb.   | .4547                            | 1   |
| Indian   | .25251/2                         | 1   |
| Ouince   | 95                               | 1   |
| Rape, Englishtb.   |                                  | 1   |
| Quince   | .12121/2                         | 1   |
| Colonial Col | .083/09                          | - 1 |
| Sabadillatb.   | .15 — .15½<br>.25 — .26          | 1   |
| Strophanthus, Hispidus fb.   | 1.55 - 1.60                      |     |
| Stramonium   |                                  | 1   |
| Sunflower, domestictb.   | .22221/2                         | 1   |
| Sunflower, domestic  | .10½11                           | 1   |
| Levantb.   | $\frac{-}{1.15} - \frac{.35}{-}$ | 1   |
|  | -1.60                            | 1   |
| SPICES Capsicum, African podstb.   | 101/                             | 1   |
| Bombay   | .12½14                           | 1   |
| Bombaytb. Japan Capstb.  | 16                               |     |
| Cassia Rude #  | 22 24                            | 1   |
| China, Selected, mats  | .1920                            | 1   |
| Chillies, Japan  | .5051<br>.2021                   |     |
| Mombasatb.   | .14141/2                         |     |
| Cinnamon, Ceylon   | .3343                            |     |
| Amboynas   | .4041 $.4445$                    | 1   |
| Amboynastb. Penangtb.  | .44 — .45<br>.70 — .80           | j   |
| Ginger, African  | .14141/2                         | 5   |
| Jamaica, white goodtb.   | .2223                            | 1   |
| Japanb.  | .161/2 .17                       |     |
| Mace, Banda, No. 1   | .4950                            |     |
| Batavia, No. 2   | .45 — .46<br>.42½— .43           |     |
| Nutmegs, 110s th   | .2728                            | 1   |
| Nutmegs, 110s  | .1920                            |     |
| Whitetb.   | .331/4 .331/2                    |     |
| Pimento, Select  | .09 — .091/                      |     |
| WAXES  |                                  |     |
| Bayberry the Bees, light, crude the Light, refined the Dark the Candelila the Camauba, Flor. the   | .5254                            |     |
| Bees, light, crude   | .4344                            |     |
| Dark   | .48 — .49                        |     |
| Candelila  | .4748                            |     |
| Camauba, Flortb.   |                                  |     |
| No. 1, North Country   | .9091                            |     |
| No. 2, North Country   | .70 — .75                        |     |
| No. 3, Fatty Gray  | .56 — .58                        |     |
| Chalkytb.  | .50 — .52                        |     |
| Ceresin, Yellow  | .16 — .18                        |     |
| White  | .18 — .23                        |     |
| Japantb.   | .19191/                          | 2   |
| Montan, crudetb.   | .35 — .36                        |     |
| *Bleached  |                                  |     |
| Ozokerite, crude, browntb.   | .35 — .36                        |     |
| *Greentb.  |                                  |     |
| *Refined, whitefb.   |                                  |     |
| *Domesticb.  |                                  |     |
| Refined, yellowtb.   |                                  |     |
|  | .0909%                           | (   |
| Paraffin, ref'd 128-139 deg.m.p.tb.  |                                  |     |
| Paraffin, rel'd 128-139 deg.m.p.tb. *Foreign, 130-132 deg. m.p.tb. Stearic Acid, see Vegetable Oil   | .10 — .105/                      | 9   |

#### Essential Oils

| Almond, bitter, tb.  Bitter, U.S.P tb.  Artificial, U.S.P tb.  Sweet tb.  Peach Kernel tb.   | 9.25 — 9.50<br>9.50 — 9.75                                 |
|--|--|
| Artificial, U.S.P  | 1.50 - 2.00 $1.00 - 1.10$                                  |
|  | .40 — .45<br>1.75 — 2.00                                   |
| Rectifiedtb. Anise, U.S.Ptb.   | 2.00 - 2.25 $1.55 - 1.65$                                  |
| Bay  | 3.75 — 4.00<br>4.70 — 4.75<br>2.50 — 3.00                  |
|  | 9.00   |
| Cajuput, U.S.P   | 1.00 — 1.10<br>1.00 — 1.25<br>.12 — .14                    |
| Japane'se, white   | .2223 $6.50 - 6.75$  |
| Bois de Rose. b. Cade b. Cajuput, U.S.P. b. Camphor, Sassafrassy b. Japanese, white b. Caraway, Rectified b. Carsay, Rectified b. Cassia, Technical b. Redistilled, U.S.P. b.  | 2.35 — 2.40<br>2.45 — 2.50<br>2.90 — 2.95                  |
| Cedar, Leaf  | 2.25<br>2526   |
| Cinnamon, Ceylon, heavy!b.   | $\frac{.25}{-}$ $\frac{28.00}{.46}$                        |
| Javatb.<br>Cloves, cantb.  | $\frac{-}{2.85}$ $\frac{-}{-}$ $\frac{.90}{3.00}$          |
| Bottles  | .8590  |
| Cirronella, Ceylon b. Java b. Cloves, can b. Bottles b. Copaiba, U.S.P. b. Coriander, U.S.P. b. Cubebs, U.S.P. b. Cumin b. Erigeron b.   | 8.00 — 8.50<br>8.50 — 9.00                                 |
| Erigeren   | - $-$ 9.00   |
| Fennei, sweet, U.S.Ptb.<br>Geranium, Rose Algeriantb.  | .65 — .75<br>2.75 — 3.00<br>9.50 —10.00                    |
| Cumin IB. Erigeron Australian,U.S.P.tb. Eucalyptus, Australian,U.S.P.tb. Fennei, sweet, U.S.P. bb. Geranium, Rose Algerian bb. Bourbon (Reunion) bb. Turkish bb.   | 9.00 - 9.25 $5.00 - 5.25$                                  |
|  | 7.00 — 7.50<br>— — 3.23<br>— — .90                         |
| Gingergrass   1b.  | 7.50 — 7.75<br>7.75 — 8.50                                 |
| Wood   | 1.50 — 2.00<br>9.25 — 9.50                                 |
| Lavender Flowers, U.S.Ptb. Gardentb. Spiketb.  | 1.20 - 1.75  |
| Lemon, U.S.P. bb. Lemongrass, Native bb. Limes, Expressed bb. Distilled bb.  | 1.10 - 1.15 $2.00 - 2.10$                                  |
| Distilled  | 2.00 — 2.10<br>3.75 — 4.00<br>1.10 — 1.25                  |
| Mace, distilled  | 7.00 — 7.25<br>1.65 — 1.70<br>emicals                      |
| Minstard, haturai  | 11.00 11.50  |
| Artificial bb. Petale bl. Artificial bb. Nutmeg, U.S.P. bb. Sweet, West Iudian bb.   | 95.00 —105.00<br>20.00 —130.00<br>15.00 —30.00             |
| Nutmeg, U.S.P  | 1.60 — 1.75<br>2.25 — 2.30                                 |
| Sweet, West Indiantb. Italiantb.   | 0.00 - 0.10  |
| Italian   1b.  | .4245<br>5.00 - 5.25                                       |
| Pennyroyal, domestictb.  | 17.00 —18.00<br>1.70 — 1.80<br>1.50 — 1.60                 |
| Peppermint, tinstb. Redistilled, U.S.Ptb.  | 7.65 - 7.75 $8.00 - 8.25$                                  |
| Petit Grain, So. Americatb.  | 2.00 4.00  |
| French   | 2.25 — 2.50<br>5.35 — 5.50<br>15.00 —17.00<br>17.50 —20.00 |
|  | 4,00   |
| Rosemarytb.  | 1.10 - 1.30  |
| Sandalwood, East India tb. West Indies tb. Sassafras, natural tb.  | 10.75 —11.00<br>6.00 — 6.50<br>1.90 — 1.95                 |
| Artificial   | .0570  |
| Spruce   | 6.00 - 6.25<br>10.75<br>90                                 |
| Thyme, red. French, U.S.P. 1b. White. French   | 4.00 - 4.25<br>1.85 - 2.00<br>2.00 - 2.25                  |
| Wintergreen, sweet birchtb.<br>Genuine Gaultheriatb.   | 5.75 — 6.00<br>9.50 —10.00                                 |
| Synthetic, U.S.P., bulktb. Wormseed, Baltimoretb.  | $\frac{-}{4.50}$ $\frac{-}{4.75}$                          |
| Savin b. Spearmint b. Spearmint b. Spruce b. Tansy, Amer. b. Thyme, red. Freach, U.S.P. b. White, French b. Genuine Gaultheria b. Synthetic, U.S.P. bulk. b. Wormseed, Baltimore b. Wormseed, Baltimore b. Yiang Ylang, Bourbon b. Manila b. Artificial b. | 7.00 — 7.50<br>15.00 —16.00<br>25.00 —30.00                |
| Artificial   | 10.00  |

| OLEORESINS                       |       |               |
|----------------------------------|-------|---------------|
| Aspidium (Malefern)              | 10.00 | -11.00        |
| Capsicum, 1-lb. bottles          | -     | - 4.00        |
| Cubeb                            | 7.75  | - 8.00        |
| Ginger                           | 3.25  | - 3.50        |
| Maleferntb.                      | _     | -10.00        |
| Mullein (so-called)              | 5.00  | - 5.25        |
| Orris, domestic                  | -     | -20.00        |
| Imported                         | 20.00 | -21.00        |
| *Paraley Fruit (Petroselinum)fb. | 7.50  | - 8.00        |
| Pepper, black                    | -     | <b>— 7.00</b> |

#### Aromatic Chemicals

| Aromatic Chem                           | 1108  | 119              |
|---|-------|------------------|
| Acetophenonetb.                         | 8.00  | -10.00           |
| Amul Saliculate                         | 2.25  | - 2.50           |
| Anetholtb.                              | 2.50  | - 2.75           |
| Anethol                                 | _     | - 7.50           |
| Renzaldenvde, F.F.C                     |       | - 2.50           |
| Renzyl Acetate                          |       | - 2.50           |
| Imported Ib.                            | -     | - 5.75           |
| Benzyl Alcoholb.                        |       | - 2.75           |
| Benzyl Benzoateb.                       | 3.25  | - 3.50           |
| Importedtb.                             | 4.00  | - 6.00<br>- 4.25 |
| Borneoltb.                              | 4.00  | -12.00           |
| Bromostyrolb.                           | 7.25  | - 7.50           |
| Cinnamic Acid                           | 40.00 | -45.00           |
| Cinnamic Aldehyde                       | 10.00 | - 5.50           |
| Citraltb.                               | 4.00  | -4.25            |
| Citronellol                             | 16.00 | 18.00            |
| Importedtb.                             | -     | -30.00           |
| CoumsrinID.                             | 6.75  | -7.00            |
| Ethyl Cinnamate                         | 8.00  | -10.00           |
| Eucalyptol                              | 1.20  | - 1.25           |
| Eugenol                                 | 3.75  | - 4.00           |
| Geraniol, from citronella ID.           | 3.50  | - 6.00           |
| Covenul Acetate                         | -     | - 7.25           |
| Camanari                                | -     | - 4.00           |
| Heliotropintb.                          |       |                  |
| [ Indo] ( P                             | _     | -20.00<br>-30.00 |
| Importedoz.                             |       | - 8.75           |
| !so-Eugenoltb.                          | 8.00  | - 9.00           |
| Linalol Acetatetb.                      | 9.00  | -13.00           |
| Linalol Benzoatetb.                     | -     |                  |
| Mentholb.                               | 8.75  | - 9.00           |
|   | 15.00 | -17.00           |
| Mothel Cinnamate                        | -     | - 7.25           |
|   |       |                  |
|   |       | 60               |
|   |       | 100.00           |
|   | 92.00 | -100.00          |
|   |       | -15.00           |
| Musk Xylenetb.                          | 13.00 | -40.00           |
| Phenylacetaldehydefb.                   | 35.00 | 42.00            |
|   |       | -16.00           |
| Phenylacetic Acid                       | 20,00 | -22.00           |
| Rhodinol                                | 20,00 | -30.00           |
| Importedb.                              | _     | - 1.25           |
| Terpineol, C. P                         | _     | - 1.70           |
| I m                                     | .6.50 | - 7.00           |
|   |       | 80               |
| Vanillin<br>Violet, artificial          | 12.00 | -18.00           |
| 110101, 1111111111111111111111111111111 |       |                  |

#### Heavy Chemicals

|                                    | _     | _    |       |
|------------------------------------|-------|------|-------|
| Acetic acid, 28 p.c., bbls., Incl. |       | _    | 3 75  |
| 1(8) 10.9.                         | -     | -    | 6 50  |
| 56 p.c., bbls100 fbs.              | _     | =    | 7 50  |
| 70 n.c. bhis                       | -     | _    | 000   |
| 30 p.c., bbls100 ibs.              | _     | -    | 0.00  |
| Redistilled100 IDs.                |       | -    | 0.50  |
| Pure100 tbs.                       | 9.25  | -    | 9.50  |
| Glacial, bbls                      | 12.25 | -1   | 3.0   |
| Alum, ammonia, lump                | .03   | 14-  | .04   |
| Groundfb.                          | .043  | 4-   | .04   |
| Powdered                           | .041  | 4-   | .04   |
| Powdered                           | 15    | -    | .16   |
| Chrometb.                          | 08    | _    | ,ne   |
| Potash lump                        | 17    | _    | .18   |
| Chrometb.                          |       |      | 200   |
| Ground                             | .09   | _    |       |
| Alum. Potash, Powdered 1b.         | .08   |      |       |
| Soda, Ground100 lbs.               | -     | -    | 0.5   |
| Aleminum chloride, carboys.th.     | -     | -    | .00   |
| Anhydrous                          | -     | -    | .13   |
| Sulphtb.                           |       | -    | 3.00  |
| Low gradetb.                       | 1.60  | -    | 1.90  |
| Low grade                          | 14    | -    | .16   |
| Aluminum hydrate light             | 07    | -    | .00   |
| Heavy                              |       | 1/2- | .10   |
| Arsenic, whiteb.                   |       | -    | 2     |
| Red                                |       | -    | 3     |
| Ammonia, Anhydrous Ib.             | 30    | 4-   | 91    |
| Ammonia Carbonate                  |       | 4-   | - 24  |
| Ammonia Nitrate                    |       | -    | , CA  |
| Ammonia Water, 26 deg.,car.tb.     | -     | -    | .(17) |
| 20 deg., carboys                   |       | -    | .00   |
| 18 deg., carboys fb.               |       | _    | .00   |
|                                    | -     | -    | .0    |
| 16 deg., carboys                   |       |      |       |

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| mmonium chloride, U.S.Pth. — — 28% Sal Ammoniae, gray th. — 13 Granulated, white th. — 12 Lump 15 25 Salphate, foreign 100 lbs. — — "Domestic, bulk 100 ths. 4.75 — 5.00 ntimony, Sulphuret th. — 25 | Sodium Bisulphateton 3.00 - 4.00   Carbonate, Sal. Soda in bbls 1.40   Bicarbonate | Dinitrotoluol  |
|--|--|--|
| Sal Ammoniae, gray   | Carbonate, Sal. Soda in bbls, — — 1.40 Bicarbonate                                 | Dinhenvlamine th 52                                      |
| Granulated, white  | Bicarbonate  | Dioxynanhthalene th                                      |
| *Domestic, bulk100 lbs 5.00  |  | Dioxynaphthalene   |
| *Domestic, bulk100 lbs. 4.75 - 5.00 ntimony. Sulphuret th.   | Chlorate   | Dioxynaphthalene   |
| ntimony, Sulphuret th 25   | Cyanide 96-98  | Hydrazobenzene   |
|  | Hyposulph. bbls. gran.100 fbs. — — 3.60<br>Kegs                                    |  |
| ntimony, Sulphurettb25<br>Crimsontb  | Nitrate, tech100 fbs. 2.95 - 3.15  | Monochlorbenzel  |
| Goldenb. — — .28   | Phosphate  | Monothylaniline  |
| lanc Fixe, dryth. 1314_ 0414   | Refinedtb063407  | Nanhthalenediamine th                                    |
| arium, chlorideton 80.00 -87.50  | Nitrite # 111/ 15  | a Naphthol, crude  |
| Binoxideb221/2 .23   | Prussiate, Yellow  | b-Naphthal, distilled                                    |
| Nitrate  | Silicate, 60 deg   | Sublimed   |
| Off colorton 14.00 -18.00  | 40 deg   | h-Naphthylamine tech th 115 125                          |
| Off colorton 14.00 —18.00 leaching Pd., f.o.b.wks100 lbs. 2.25 — 2.50  | 30 p.c. crystalstb02021/2  | Sublimedtb 200   |
| alcium Acetate100 lbs. 2.00 - 2.10   | Sulphite M. 02 _ 0314  | Sublimed   |
| Carbide  | Sulphate, Gl'b. salt100 fbs. 1.25 - 1.50<br>Sulphur Dioxide Comtb0811              | Nitrobenzol  |
| Carbonate  | Sulphur Dioxide Comtb0811  | Nitrochlorbenzol   |
| Granulated, f.o.b. N.Yton 20.00 -25.00   | Sulphur crudeton 25.00 -30.00  | Nitronaphthalene   |
| hiorine, liquefied the 0714-00   | Flour Com'l., bbls100 tbs. 1.70 - 2.00   | o-Nitrophenol  |
| hlorine, liquefied   | Roll, 100 p.c  | Nitrotoluol  |
| opper Carbonate  | Flowers, 100 p.c100 tbs. 3.30 - 3.60   | o-Nitrotoluoltb2530                                      |
| Subacetate (Verdigris)lb4548   | Sulphuric Acid, Tank carlots   | Paranitraniline  |
| Powdered   | 60 deg. f.o.b. wkston 15.00 —18.00   | m-Phenylenediaminetb. 1.10 - 1.20                        |
| Cyanide chlor. Mix., 73-7627 — .28<br>Sulphate, 98 99 p.c  | 66 deg. f.o.b. wkston 20.00 -25.00<br>Oleum, f.o.b. wkston 25.00 -30.00            | p-Phenylenediamine                                       |
| Sulphate, 98 99 p.c100 lbs. 8.85 — 8.90  | Battery Acid car's per 100lbs. Nominal   | Phthalic Anhydridetb8090 Pseudo-Cumoi                    |
| 99 p.c. carlots N.Y100 bs 9.00 opperas, f.o.b. works100 bs. 1.10 - 1.20  | Tin, bichloride  | Pseudo-Cumol   |
| loursparton 24.00 _35.00   | Crystalstb4345   | "P" Salt   |
| loursparton 24.00 -35.00<br>usel Oil, crudegal. 2.50 - 2.85  | Zinc carbonate th 18 - 21  | Resorcin, U.S.P., see Fine Chemicals Resorcin, Technical |
| Refinedgal. 3.75 — 3.80  | Chioride, Fused  | Sodium Naphthionatetb 1.10                               |
| ydrofluoric Ac. 03 p.c. bbls. b06071/2   | Granulated   | Tetranitromethylaniline D 230                            |
| 48 p.c. in carboys   | Granulated   | Tolidin  |
| 52 p.c. in carboys   | Leaded   | o-Toluidinetb2530  |
| actic Acid, 22 p.c   | Sulphatetb03½ .04  | p-Toluidine  |
| Broken Cakes   |  | Xylene, puregal4050                                      |
| Granulated   | December T M 1   | Xylene, Comgal4050                                       |
| Arsenate, powdered   | Dyestuffs, Tanning Materials   | Xylidinetb4550   |
| Paste  | and Accessories  |  |
| Nitrate  |  | COAL-TAR COLORS  |
| Oxide, Litharge, Amer. pd.tb0913 Poreignb  |  | ACID COLORS:   |
| Red, American  | COAL-TAR CRUDES  | Black  |
| Sulphate, basic  | Benzol C. Pgal2528   | Bluetb. 3.00 - 5.00                                      |
| White, Basic Carb., Amer.  | (90 p.c.)gal25 — .28   | Browntb. 1.25 - 2.00                                     |
| dry  | Cresylic acid, crude.95-97p.c.gal6575  | Fuchsin  |
| in Oil. 100 lbs. or over tb13  | 50 p.cgal50 — .55  | Orange 11  |
| Englishb   | 25 p.cgal30 — .35  | Red  |
| itnopone   | Cresol, U.S.P  | Red  |
| ime, hydrate   | Creosote oil. 25 p.cgal4045  | Violet 10B   |
| Sulphur solutiongal1722  | Dip. oil, 25 p.cgal4045  | Amidina Vallow D. th 150                                 |
| langanese Chlor,   | i Naphthalene, balls   | Alpine Yellowtb. 2.00 - 7.50                             |
| Sulptb1517   | Flake  | Alpine Yellow  |
| lagnesiteton 62.00 -65.00  | Pitch. various gradeston 14.00 -18.00  | Alkaline Blue, Imp                                       |
| f.o.b. N. Y  | Solvent naphtha, waterwhitegal2225   |  |
| Iuriatic acid,<br>18 deg. carboys100 fbs 1.75  | Crude heavygal1618   | Azo Vellow, green shade th. 3.50 - 4.50                  |
| 29 deg. carboys100 fbs. — — 1.75   | Toluol, puregal2530  | Azo Yellow   |
| 22 deg. carboys100 lbs 2.25  | *Commercial, 90 p.cgal25 — .30   | Brilliant Delpaine B.S.   1,00                           |
| lickel oxide   | Xylol, pure water whitegal4045<br>Commercialgal3035                                | Fast Light Yellow, 2-Gfb 3.00                            |
| Salts, single  |  | Fast Red, 6B extra, con'tb 3.00                          |
| double   | INTERMEDIATES  | Granine  |
| litric acid, 63 deg. carboys b050544   | Acid Benzoic (See fine Chemicals)  | Indigatine concth 2.50                                   |
| *38 deg. carboystb06¼06½   | Acid Hb. 1.50 - 1.60   |  |
| 40 deg. carboys  | Acid Metanilic   | Materia 3'-11am th 150 - 1.60                            |
| 42 deg. carboysb07½07¼<br>hosphoric Acid, 85-88 p.cb3338   | Refined  | Medium tireen  |
| 50 p.c., tech  | Acid Sulphanilic, crude  | Naphthol Green   |
| hosphorus redtb6070  | Refined  | Naphthylamine Red  |
| Yellow   | p-Amidophenol Hdcl., 98 p.cfb 2.50   | Orange, R. G., contract                                  |
| Sesquisulphide   |  | Orange V conc  |
| True Dentalbbl. 1.50 - 1.60  |  |  |
| True Dentalbbl. 1.75 - 2.00 otash Caustic, 88-92fb2832   | Aniline Oilb30 — .31   |  |
| Octash Caustic, 88-92  | Aniline Salts  | Secretar 2D   10 - 1.10                                  |
| otassium Bichromate 1b2627   | Aniline for redtb6065  | Tartrazine, Dom  |
| Carbonate, calc. U.S.P   | *Anthracene (80 p.c.)  | Tartrazine, Imp  |
| 80-85 p.etb. — — .25   | Anthraquinone  | Uranine  |
| 85-90 p.ctb. — — —   | Benzaldehyde, Techtb6:70   | Yellow for Wool  |
| 90-95 p.ctb. — — —   |  |  |
| *96-98 p.e   | U.S.P. & F.F.C., see Aromatic Chemicals  | DIRECT COLORS:   |
| Powdered, American   | Benzidine Basetb. 1.00 - 1.20  | Plack th 95 - 1.10                                       |
| Japanesetb19 — .20   | Benzidine Sulphate   | Cl., Di., 15 3 25 - 3.75                                 |
| Muriate basis 80 p.c   | Benzoate of Soda, U.S.Ptb8085  | Blue 1b 1.10   |
| Foreign - 85.00  | Benzylchloride, 95-97  | Brown  |
| Foreign — 85.00  Permanganate, Com'ltb. —  | Diamidophenol  | Bordeaux   |
| Prussiate, red   | Dianisidine  | Fast Red   |
|  |  | Fast Yellow  |
| Sulphate 150.00  | Dinitrophenol  | Yellow   |
|  | o-Dichlorbenzol  | Person Purporing 10R th 3.50 - 4.0                       |
| ialtpetre, GranulatedID, —   | Dinitrobenzol  | Benzo Purperine 4B                                       |
| Sulphate 150.00 saltpetre, Granulated  |  |  |
|  | Dinitrobenzol  | Chryosophenine, Domtb 250                                |
| Dense 58 p.c. bags 100 lbs. 2.40 - 2.65<br>Caustic. 76 p.c. 100 lbs. 3.25 - 3.50   | Dinitrobenzol  | Chryosophenine, Domtb 250<br>Chryosophenine, Imptb 38    |
| Dense 58 p.c. bags 100 lbs. 2.40 - 2.65<br>Caustic. 76 p.c. 100 lbs. 3.25 - 3.50   | Dinitrobenzol  | Chryosophenine, Dom                                      |
|  | Dinitrobenzol  | Fast Red   |
|  | Dinitrobenzol  | Chryosophenine, Domb2.                                   |



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| Yellow   | .65<br>1.00          | Crystals, 100 p. cb.  | .263                      |
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| Blacktb30 —  | .40                  | Extract   | .303                      |
| Blue Dom   | .90                  |   | 3.00 - 3.5                |
| Greentb. 1.00 -  | 2.00                 | Logwood, solid  | 1<br>2                    |
| Yellowtb90 — CHROME COLORS:  | 1.00                 | 51 deg., Twaddletb.   | 1                         |
| Alizarin Blue, brightfb. 7.75 -  | 9.25                 | Contracttb.   | .10%1                     |
| Alizarin, medium   | 7.50                 | Osage Orange, Extract 42 degth.   | .09 — .1                  |
| Alizarin Orange  | 1.90                 | Crystals, 100 p.ctb. Pastetb.   | 3                         |
| Alizarin Red, W. S. Pastetb. 5.00 —<br>Alizarin Yellow Gtb. —  | 1.35                 | Persian Berriestb.  |                           |
| Alizarin Yellow Rtb. ——————————————————————————————  | 150                  | Quebracho, see tanning.   |                           |
| Chrome Black, Dom  | 2.50                 | Quercitron, 51 degtb.   |                           |
| Chrome Green, Domtb. 2.50 —  | 2.75                 | Powdered, 100 p.ctb.  | .13 — .1                  |
| Chrome Red   | 2.00                 | MISCELLANEOUS DYE   | STUFFS                    |
| Auramine Single O. Dom.th  | 2.50                 | Albumen, Eggtb.   |                           |
| Auramine, Single O. Dom.fb Auramine, Double O. Imp.fb Bismarck Brown Y   | 2.50<br>3.50<br>1.00 | Technicaltb.  |                           |
| Bismarck Brown R   | 1.30                 | Blood, imported   | .556                      |
| Chrysoidine Rb   | 1.00                 | Prussian bluetb.  | .65 — .8                  |
| Crystal Violet   | 5.25                 | Solubletb.  |                           |
| Green Crystals, Brilliant 6.00 -   | 7.00                 | Turkey Red Oil  |                           |
| Green Crystals, Brilliant. b. 6.00 — Indigo 20 p.c. pasteb. — Fuchsine Crystals, Domb. 4.00 —  | 5.00                 | 100-lb. tins  | 1                         |
| Fuchsine Crystals, Imp b. 12.00 -  | 12.50<br>5.00        | 520-1b. caskstb.  | 1                         |
| Magenta Crystals, Imptb. 10.00   | 12.00                | Carload lotstb.   | 1                         |
| Bismarck Brown R b. 1.20 — Chrysoidine R b. — — Chrysoidine Y b. — — Crystal Violet b. 5.00 — Emerald Green, Crystals b. — — Green Crystals, Brilliant. b. 6.00 — Indigo 20 p.c. paste b. — — Fuchsine Crystals, Dom b. 4.00 — Fuchsine Crystals, Imp b. 12.00 — Magenta Acid, Dom b. 4.25 — Magenta Crystals, Imp b. 10.00 — Malachite Green, Crystals .b. — Methylene Blue, tech b. 2.25 — Methyl Violet b. 2.60 — | 4.50<br>3.50         | DEXTRINES AND STA   |                           |
| Malachite Green, Powd  | 3.50                 | British Gumper 100 lbs.   | 8.00 — 8.5                |
| Phosphine G. DomesticIb. 7.00 -  | 10.00                | Dextrine, Corn, white or<br>yellowper 100 fbs.  | 750 - 77                  |
| Rhodamine B, ex. con'ttb. — —2<br>Valonia, solid, 65 p.c. tantb. 5.00 —  | 6.00                 | Potato, white or canaryfb.  |                           |
| Victoria Blue Bb   | 5.50                 | Starch, Powd., bags & bbls  | 6.2                       |
| Victoria Green   | 7.00                 | Pearl, Globe, bags & bbls Potato, Domestic  | 6.2                       |
|  | 8.00                 | Imported, duty paidfb.  |                           |
| NATURAL DYESTUFFS  |                      | RAW TANNING MAT   |                           |
| Annatto, fine  | .07                  | Algarobillaton18  | 5.00 —200.0               |
|  | 4.75                 | Divi Diviton 7  |                           |
| Gambier, see tanning.  |                      | Hemlock Barkton 1 Mangrove, African, 38 p.cton 6  |                           |
| Indigo, Bengal   | 2.75                 | Bark, S. Aton 6   |                           |
| Guatemalatb. 2.00 -  | 2 26 1               | Myrobalanston 5   | 0.00 -60.0                |
| Kurpahs 1b. 2.00 — Madras 1b. 2.00 —   | 1.10                 | Oak Barkton 1   |                           |
| Madder, Dutch  | 75                   | Groundton Quercitron Bark roughton 1  | 2.00 -15.0                |
| Madras   | .35                  | Ground ton 2 Sumac, Sicily, 27 p.e. tan.ton10 Virginia, 25 p.e. tan. ton 7 Valonia Cups ton Beard ton Wattle Bark ton 7 | 7.00 -25 9                |
| Ouercitron Bark, see tanning.  | !                    | Sumac, Sicily, 27 p.e. tan.ton10  | 5.00 —115.0<br>5.00 —85.0 |
| Turmeric, Madrastb131/2-   | .14                  | Valonia Cupston   |                           |
| DYEWOODS   | ,                    | Wattle Barkton 7  | 0.00 -75.00               |
| Barwood  | .08                  | TANNING EXTRA   | CTS                       |
| Fustic. stickston 30.00 -3   | 5.00                 | Chestnut, ordinary, 25 p.c. tan,  |                           |
| Chins  | .06                  | Clarified, 25 p.c. ton, bbls. fb.   | .0300                     |
| Hypernic, chipstb07 - Cogwood Stickston 25.00 -3   | 5.00                 | Crystals, ordinary  | ===                       |
| Chips  | .051/2               | Clarified   | .1711                     |
| Quercitron, see tanning.<br>Red Saunderstb20 -   |                      |   | .1214                     |
| EXTRACTS   |                      | Cubes, Singpaore  | .1416                     |
| Archil, Double   | .19                  | Hemlock, 25 p.c. tanfb. Larch, 25 p.c. tanfb. Crystals, 50 p.c. tanfb.  | .0505                     |
| Concentrated   | .25                  | Crystals, 50 p.c. tan   | .081/400                  |
| Catch, Mangrove, seen tanning.<br>Rangoon, boxes   | .18                  | Mangrove, 55 p.c. tanfb.<br>Liquid, 25 p.c. tanb.   | .0910                     |
| Liquidtb12 -   | .14                  | Muskegon, 23-30 p.c. tan,   |                           |
| Cudhear, French  | _                    | 50 p.c. total solids  | .01¼00<br>Nominal         |
| English  | .26                  | Myrobalans, liq., 23-25 p.c.tan fb. Solid, 50 p.c. tanfb  |                           |
| Concentratedb  |                      | Nominal   |                           |
|  |                      |   |                           |

| 1.50              | I Oak Bork liquid 23.25n a to-th   |       |        |
|-------------------|--|-------|--------|
| .27               | Oak Bark, liquid, 23-25p.e.tanfb.<br>Quebracho, liquid, 35 p.efb.<br>"35 p.e. tan, untreatedfb.<br>"35 p.e. tan, bleachingfb.<br>"Solid, 65 p.e. tan, ordinary.fb.<br>"Clarified"fb.   | =     | .0514  |
| .40               | *35 p.c. tan, untreatedfb  | -     | .06%   |
|                   | *Solid, 65 p.c. tan, ordinary.tb.  | -     | .08    |
| .161/5            | *Clarified   | -     | .12    |
| .19               | Spruce, liquid, 20 p.c. tan,   | -     | -      |
|                   | *Clarified   | 13/6- | .01%   |
| .131/6            | Valoni solid 65 p.c. tanb00  | 1/2   | .08    |
| .28               | valoni, solid, 65 p.c. tanib. No   | mina  | 1      |
| .24               | 0.11   |       | _      |
| 2.50              | Oils   |       |        |
| .37               | ADITOTAT AND THOSE   | _     | _      |
| 3.50              | ANIMAL AND FISH  |       |        |
| .18               | Carloads   Carloads  |       |        |
| .21               | Domestic prime   | -     | 1.20   |
| .10               | Liver, Newfoundlandbbl   | 0     | 7.12   |
| .1034             | Norwegianbbl   | 13    | 5.00   |
| .16               | Degras, American   | 1/2-  | .071/4 |
| .20               | English  | 1/2-  | .08%   |
| .10               | Honor  | -     | -16    |
| -                 | Lard prime   | -     | .16    |
|                   | Off primegal. 1.70   | =     | 1.75   |
| .073/5            | No. 1gal   | -     | 1.30   |
| .14               | Extra, No. 1gal  | -     | 1.40   |
|                   | Horse th. 11 Lard, prime gal 1.8 Off prime gal 1.7 No. 1 gal gal 7 Extra, No. 1 gal No. 2 gal Menhaden, Light strained—gal —   | -     | 1.20   |
| S                 | Yellow, bleachedgal. — White, bleached, winter.tb. *Northern, crudegal.  | _     | 20.    |
| 2.00              | White, bleached, winter the  | _     | 1.32   |
| 1.25              | *Northern, crudegal  | - 1   | 1.10   |
| .85               | Southern crude, f.o.b. plant gal   | -     | 1.05   |
| .60               | White, bleached, whiter.Ib.  Northern, crude   |       | 2.25   |
| .80               | ## 1.50 deg., cold test. gal. 1.95 ## 2 gal. 2.95 # | _ :   | 2.00   |
| .80               | *Darkgal. —<br>*Primegal. —  | -     | 1.50   |
| .20               | Oleo Oil   | -     | .55    |
| .14               | Red (Crude Oleic Acid)th. 12   |       | 1714   |
| .12               | Red (Crude Oleic Acid)tb17<br>Saponifiedtb17   | -     | .1736  |
| .11               | Sperm bleached winter  |       |        |
| .10               | 45 deg., cold testgal  |       | 1.95   |
| .10               | Natural winter, 38 deg., cold  |       |        |
| 8                 | testgal. 1.95  | -1    | L00    |
| .50               | Double pressedID   | _     | 2006   |
|                   | Triple pressedtb   | -     | .30    |
| 7.75              | Tallow, acidlessgal  | -     | .60    |
| .18               | Whole natural minter gal 126   | -     | 1.55   |
| 5.25              | Whale, natural wintergal. 1.25<br>Bleached, wintergal. 1.30  | - 1   | .35    |
| 5.25              | VEGETABLE OILS   |       |        |
| .093/2            | Castor No 1 bbls   | _     | .21    |
| .095/4            | Cases th 23  | -     | .231/6 |
| S                 | No. 3  | -     | .23    |
| 0.00              | Coconut, Dom, Ceylon, bbls.tb17  |       | .171/2 |
| .00               | Coconut, Dom. Ceylon, bbls.fb. 17 Tanks th. 15 Cochin, bb.s bbls., Dom. th. 48 *Tanks th. 18 Manila, tanks, coast th Corn, refined, bbls th. 49 Crude, Tanks th Cottonseed, Crude, f. o. b. mills in tanks th. 16  | -     | .15%   |
| .00               | Cochin, bb.s bbls., Domtb  | -     | .19    |
| .00               | Tankstb18  | _     | .15    |
| .00               | Corn, refined, bbls  | _     | .241/2 |
|                   | Crude, Tanksb  | -     | .16    |
| .00               | Cottonseed, Crude, 1. o. b.  | -     | .1614  |
| .50               | mills, in tankstb16<br>Summer, yel., prim., bbl.tb21   | _     | .22    |
|                   | *White   | -     | -      |
| .00               | Winter yellow  | _ 1   | .86    |
| .00               | Cottonseed, Crude, f. o. b.  mills, in tanks   | -1    | .89    |
| .00               | Boiled, 5-bbl. lotsgal   | -1    | .90    |
| -                 | Double Boiled, 5-bbl. lots   | -1    | .91    |
| .00               | *Olive denaturedgal  | - 2   | .50    |
|                   | *Olive. denatured  | - 3   | .15    |
|                   | Poly Torres analys the   | =     | .18    |
|                   | *Beninb. —   | -     | 1646   |
| .031/2            |  |       | .16    |
|                   | *Palm Kernel, domestic   | _     | _      |
| -                 | Peanut Oil, refined  | _     | .26    |
| .18               |  |       | .22    |
| .18<br>.14<br>.20 | *Crude, f.o.b. millsgal. 2.75 Poppy Seedgal. 2.75 Rapeseed ref'd bblgal. 1.60  | - 1   | .65    |
| 16                | *Blowngal. 1.65  | -1    | .70    |
| .05%              | *Sesame, domestic, ediblegal   | - 2   | .40    |
| .051/2            | *Importedgal. Soya Bean, Tanks, Pac.Coastib. 14  | -     | .15    |
| .083/4            |  | -     | .1173  |
| 10                | GREASES. LARDS, TALLO  | We    |        |
| .10               |  |       |        |
| .023/4            | Greage *white  | -     | .18    |
| na1               | Vellow   | _     | 14     |
| -                 | House  |       |        |
|                   | *** 1 - 9  |       |        |
| - 1               | *Nominal   |       |        |

#### Greases, Cocoa, Shellac, Naval Stores, and Miscellaneous

| Grease, Brown tb. Lard City tb. Compound tb. Stearine, lard tb. Oleo tb. Tallow, edible tb. (Chicago Markets) Tallow, edible tb. City Fancy tb. Prime Packers tb. | .17½-                                     | .12<br>.25<br>.24<br>.33<br>.19<br>.18<br>.15½<br>.17½ | OIL CAKE AND MEAL  Cottonseed Cake, f.o.b. Texas. — -54.50 f.o.b. New Orleans —   | *Diamond "1"   |
|---|---|--|---|--|
| Grease, Choice White  | .18 —                                     | .181/4   | Miscellaneous   | Spirits Turpentine in bbls.gal. 1.73 - 1.75 Wood Turpentine, steam distilled, bbls |
| "B" White tb. Yellow tb. Brown tb. Bone tb. House tb. Stearine, prime oleo. tb. Lard, city steam. tb.   | .13 —<br>.11 —<br>.10½—<br>.12½—<br>.18½— | .13½<br>.11½<br>.11<br>.13                             | Accura         tb.         18         —         15           Bahia         tb.         22         —         23           Caracas         tb.         19         —         23           Hayti         tb.         19         —         23           Maracaibo         tb.         19         —         23           Trinidad         tb.         25         —         26 | tilled, bbls   |

### Imports and Exports of Drugs and Chemicals, Dyestuffs, Etc.

Imports from Sept. 19 to Sept. 26

#### Imports

ACIDS—Citric, 3 csks. Brown Bros. & Co. London; 50 kegs National City Bank, London; Cresylic, 23 drums, Dana & Co., Leith; Muriatic, 100 carboys, Bartram Bros., Macoris; Oxalic, & csks. R. W. Greeff & Co., Rotterdam; Salicylic, 11 bbls. W. R. Grace & Co., Sydney; Tartaric, 40 kegs, National Bank of South America, London; 6 csks. National Bank of South America, London; 1 keg, 4 csks., 20 kegs Brown Bros. & Co., London;

AGAR-AGAR-50 bls. International Trading Co. Kobe; 25 cs., W. K. John, Inc., Kobe; 50 bls. T. M. Duche & Sons, Kobe; 10 bls. Brown Bros. & Co., London

bls. Brown Bros. & Co., London

ALBUMEN-114 cs. A. Oliver & Co., Shanghai;
Ai; 7 cs. D. L. Moos & Co., Shanghai;
Ocs., 56 cs. D. Nagasee & Co., Shanghai;
Ocs., Sinstein & Co., Shanghai;
Ocs. Mistui & Co., Shanghai; 56 cs., 56
cs. Baring Bros. & Co., Shanghai; 50 cs.
Mechanics & Metals National Bank,
Shanghai; 10 cs. Neuss, Hesslein & Co.,
Shanghai; 100 cs. Nisson Trading Corporation, Shanghai; 314 cs. Mitsui & Co.,
Shanghai; 66 cs. Mitsui & Co., Shanghai;
75 cs., 122 cs. D. Nagasee & Co., Shanghai;
75 cs., 122 cs. D. Nagasee & Co., Shanghai;
75 cs., 125 cs. D. Nagasee & Co., Shanghai;
15 cs., 126 cs. National City Bank of New York, London;
115 cs. F. W. Frost & Co., Liverpool
ALDERYDE, CINNOMIC—3 drums, Magnus,
Maybe & Reynard, London
ALIZARIN—3 csks. Aniline Dves & Chem-

64

'n

26 22 00

65 70 40

15

ALBENYDE, CINNOMIC—3 drums, Magnus, Maybe & Reynard, London

ALIZARIN—3 csks. Aniline Dyes & Chemical Co., Inc., Manchester; 9 bbls. T. D. Downing & Co., London

ALMONDS—Bitter, 200 bls. Birdsong Bros., Naples; 150 bgs. W. G. Patrick & Co., Naples; 100 bgs., 100 bgs. British Bank of South America, Ltd., Naples; 100 bgs. Witish Bank of South America, Ltd., Naples; 100 bgs. W. G. Patrick & Co., Naples; 100 bgs. Mational Bank, Malayar; 200 bgs. Materne & Hess, Denia; 150 bgs. Bank of New York, Monginevro; Sweet, 300 bxs. Materne & Hess, Denia; 400 cs. Equitable Trust Co., Malaga; 300 cs. Surving National Bank, Malaga; 400 cs., Thiladelphia National Bank, Malaga; 470 cs., Surving National Bank, Malaga; 1,000 cs., 300 cs. Bank of New York, Malaga; 150 cs. National City Bank, Malaga; 475 cs. Bankers Trust Co., Malaga; 1,000 cs., V. R. Grace & Co., Malaga; 250 cs. Irving National Bank, Malaga; 475 cs. Bankers Trust Co., Malaga; 200 cs. Irving National Bank, Malaga; 476 cs. Bank of Manhattan Co. Malaga; 250 cs. Irving National Bank, Malaga AMIDOL—1 cs. Johnson & Sons, London AMMONIUM MURIATE—50 csks. P. C. de Field & Co., Bristol; Perchlorate, 986 bxs., Thomas Meadows & Co., Bristol ANTIMONY—500 cs. Furukawa, Osaka

ANTIMONY-500 cs. Furukawa, Osaka

ARSENIC-400 bbls. American Metal Co., Ltd., Tampico; Crude, 800 cs. Furukawa & Co., Yokohama; 400 cs., Furukawa & Ltd., & Co., 1 Tokio

BALSAM COPAIBA—48 cs. Gustave Amsinck & Co., Porto Colombia; 9 cs., S. Isaac & Co., Yokohama

BALSAM COPAIBA—48 cs, Gustave Amsinck & Co., Porto Colombia; 9 cs., S. Isaac & Co., Yokohama
BARIUM SULPHCYANIDE—8 csks. Durex Chemical Corporation, Manchester
BEANS—Cocoa, 21 seks. Winter, Ross & Co., Manoas; 67 seks. National Park Bank, Manoas; 13 bgs. Brown Bros. & Co., Manoas; 64 seks. National Park Bank, Manoas; 13 bgs. Brown Bros. & Co., Manoas; 65 seks. National Park Bank, Manoas; 13 bgs. Brown Bros. & Co., Trinidad; 26 bgs., A. S. Lascelles & Co., Inc., Trinidad; 50 bgs., Middleton & Co., Trinidad; 100 bgs., A. S. Lascelles & Co., Inc., Trinidad; 50 bgs. Middleton & Co., Trinidad; 25 bgs. E. Gibbs, Trinidad; 34 bgs., Lawrence Turnure & Co., Trinidad; 50 bgs. Middleton & Co., Grenada; 61 bgs. Frame, Leaycraft & Co., Grenada; 61 bgs. Frame, Leaycraft & Co., Grenada; 61 bgs. Frame, Leaycraft & Co., Barbados; 700 bgs. Middleton & Co., San Domingo; 276 bgs. Michelena & Co., La Romana; 51 bgs. Michelena & Co., San Domingo; 276 bgs. Michelena & Co., Sanchez; 30 bgs. Marden, Ortà & Hastings, Sanchez; 25 bgs. Mecke & Co., Sanchez; 30 bgs. H. H. Pike & Co., Sanchez; 35 bgs. J. J. Julia & Co., Sanchez; 35 bgs. H. H. Pike & Co., Sanchez; 35 bgs. J. Aron & Co., Inc., Sanchez; 125 bgs. Royal Bank of Canada; 835 bgs. F. Ricart & Co., Sanchez; 135 bgs. J. J. Julia & Co., Puerto Plata; 135 bgs. J. J. Julia & Co., Puerto Plata; 315 bgs. J. J. Julia & Co., Puerto Plata; 315 bgs. J. J. Julia & Co., Puerto Plata; 315 bgs. F. Ricart & Co., Sanchez; 147 bgs. W. R. Grace & Co., Puerto Plata; 315 bgs. F. Ricart & Co., Sanchez; 147 bgs. W. R. Grace & Co., Puerto Plata; 315 bgs. J. J. Julia & Co., Sanchez; 195 bgs. Yglesias & Co., Puerto Plata; 315 bgs. F. Ricart & Co., Sanchez; 196 bgs. P. Ricart & Co., Sanchez; 197 bgs. W. R. Grace & Co., Colombo; 300 bgs. Gustave Amsinck & Co., Inc., South Pacific ports; 150 bgs. Calonial Agency, Monginevo; 2000 bgs. Calonial Agency, Monginevo; 2000 bgs. Calonial Agency, Mongine

mares Corporation, Trinidad; 14 bls., 1 puncheon, British American Tobacco Co., Ltd., Trinidad; Vanilla, 2 cs. H. Marquardt & Co., Vera Cruz; 25 cs. Brown Bros. & Co., Vera Cruz

BISMUTH-5 bgs. W. R. Grace & Co.,

BITTERWOOD-50 tons, J. E. Kerr & Co.,

AMPHOR-Crude, 50 cs. Equitable Trust Co., Hongkong; Refined, 30 cs., 50 cs. Eastman & Rilburn, Hongkong; 100 cs. National Bank of South America; 75 s. D. Nagase & Co., Kobe; 50 cs., American Camphor Co., Kobe; 10 cs. S. Suzuki & Co., Osaka; Slabs, 30 cs. C. Itoh & Ce., Kobe CAMPHOR-Camp Co., Kobe

CAPSICUM-75 cs. J. Victori & Co., Bar-celona; 270 cs. Guaranty Trust Co., Val-

CASEINE-10 bgs. C. C. Mengel & Co.,

CHEMICALS—Miscellaneous, 210 csks. Roess-ler, Hasslacher Chemical Corporation COPRA-52 bgs. J. P. Aranjo, Samana; 79 bgs. Yglesias & Co., Samana; 1,269 bgs. Brown Bros. & Co., Auckland; 96 bgs. Franklin, Baker & Co., Kingston

CRESOL-100 csks. National Anline & Chemical Co., London; 5 csks. 10 drums, W. E. Jordan & Co., Inc., Manchester CUBEB BERRIES-25 bgs. Meyer & Co.,

DENTAL CREAM, MEDICINAL-1 box Colgate & Co., Trinidad; 17 cs. Gaston, Williams & Co.

DIVI-DIVI-1,048 bgs. R. Desvernine, Cur-

BRUGS-Miscellaneous, 4 cs. Rhodia Chemical Co., Havre; 20 cs. E. Fougera & Co., Havre; 1 cs. T. D. Downing & Co., Havre; 1 cs. Chas. L. Huisking & Co., London DYES-1 bbl., S. Candee & Co., Vera Cruz; Aniline, 7 bbls. W. R. Grace & Co., Samarang

Bros. & Co., Kingston; Gambier, 1 cs.
J. F. Mosser Co., Manchester; 61 cs.
Guaranty Trust Co., Singapore; Mangrove
Bark, 448 bgs. R. Fabien & Co., Samana:
1,350 bgs., 2.520 bgs. Caribbean Agency,
Inc., Port Liberty Bay; Miscellaneous, 5
kegs, Aniline Dyes & Chemical Co., Inc.,
Liverpool Liverpool

EXTRACT, QUEBRACHO—4,756 bgs. First National Bank of Boston, Buenos Aires; 5,068 bgs., 9,160 bgs. Brown Bros. & Co., Buenos Aires

GELATIN-5 cs., P. H. Manners, Leith; 240 bgs. Milligan & Higgins Gelatine Co., 240 bgs. I Rotterdam

GLYCERIN-2 tanks, W. R. Grace & Co.,

GRASS, MEDICINAL-350 bgs. Philadelphia Seed Co., Genoa

Seea Co., tenua GUMS-Aloes, 150 cs. R. Desvernine, Maracaibo; 69 cs., 30 cs., Suzarte & Whitney, Maracaibo; 5 kegs, S. B. Penick & Co., London; Benzoin, 4 cs. National Bank of South America; Chicle, 534 bls. Mexican Exploitation Co., Vera Cruz; Tragacanth, 80 bgs. Brown Bros. & Co., Smyrna

HERBS-Medicinal, 2 bls. Baring Bros. &

ICHTAMOM-1 cs. C. L. Huisking, Inc.,

ICHTHYOL-33 cs. C. L. Huisking & Co.,

ISINGLASS 30 cs. C. Itoh & Co., Kobe; 3 crates, Tasho Trading Co., Yokohama JUICES-Orange, 16 cs. Dodge & Olcott Co., Barcelona

KOLA NUTS-5 bgs. Royal Bank of Canada; 10 bgs. G. V. Gross & Co., Grenada LEAD SULPHATE-5 csks. S. Doggett,

LEMON PEEL-200 bbls. A. E. Rittwagen, Malaga

LEMON PHOSPHATE-3 bgs. Suzarte & Whitney, Maracaibo

Whitney, Maracaibo
LEAVES.—Beiladonna, 66 bls. Brown Bros.
& Co., London; Coca, 30 bls. W. Van
Doorn, Rotterdam; Henna, 39 bls., 21 bls.
P. E. Anderson & Co., London; Senna, 24
bls., 81 bls. Brown Bros. & Co., London;
33 bls. Baring Bros. & Co., London
LICORICE PASTE—33 cs. W. Janvier, London 21 bls. 24

LIME CITRATE—96 cs. Powers-Weightman-Rosengarten Co., Central American ports LYCOPODIUM—23 cs., 7 cs. Brown Bros. & Co., London

MAGNESIUM SULPHATE-20 csks. Hum

MARSHMALLOW FLOWERS—9 scks. Ang-lo-South American Co., Barcelona

MEDICINES, MISCELLANEOUS—2 cs. G. Ascione, Naples; 4 cs. American Express Co., Genoa; 159 pkgs. Brown Bros. & Co., Genoa (in transit); 2 pkgs. France & New York Medicine Co., Puerto Plata

MERCURY—23 flsks. W. Schall & Co., Vera

MYROBALANS-2,088 pckts., 1,287 pckts., 4,600 pckts., Baring & Co., Colombo NUTGALLS-6 bgs. Brown Bros. & Co.,

NUX VOMICA-515 pckts. Powers-Weight-man-Rosengarten Co., Rangoon; 1,000 pckts. South American Bank, Calcutta; 363 pkgs. Baring Bros. & Co., Calcutta

South American Bank, Calcutta; 363 pkgs. Baring Bros. & Co., Calcutta

\*OILS—Camphor refined, 2,000 cs. A. Chiris & Co., Kobe; 10 cs. Suzuki & Co., Kobe; 50 cs. Guaranty Trust Co., Kobe; Coc. Nut, 59 pkgs. J. Aron & Co., Inc., Calcutta, 398 pkgs. Thornett & Fehr, Colombo; 64 pkgs. J. H. Vavasseur & Co., Ltd., Colombo; 69 pkgs. Baring Bros. & Co., E. Naumberg & Co., Colombo; 19 pkgs. Baring Bros. & Co., London; 10 cs. Brown Bros. & Co., London; Cod., 10 cs. Brown Bros. & Co., London; Cod., 10 cs. Brown Bros. & Co., London; Cod., 10 cs. Brown Bros. & Co., London; Olive, 600 cs. American Express Co., Genoa; 264 bbls., National City Bank, Barbados; 1,000 cs. Schroeder Bros. Barcelona; 8 bbls. J. Munroe & Co., Barcelona; 1,500 cs. Equitable Trust Co., Barcelona; 60 bbls. National City Bank, Barcelona; 60 bbls. National City Bank, Barcelona; 60 bbls. National Foreign Banking Corporation, Valencia; 200 bbls. Equitable Trust Co., Malaga; 140 cs. Irving National Bank, Malaga; 578 cs. Irving National Bank, Malaga; 200

bbls. National Park Bank, Malaga; 200 bbls. A. E. Rittwagen, Malaga; 700 cs. Ricardo, Gomez & Dietlin, Malaga; 300 cs. A. D. Shaw & Co., Cadiz; Peanut, 100 cs. Cook, Swan & Co., Osaka

A. D. Shaw & Co., Cadiz; Peanut, 100 cs. Cook, Swan & Co., Saka Olls, Essential—3 cs. W. J. Bush & Co., London; 5 cs. Equitable Trust Co., Malaga; Bergamot, 40 cs. Baring Bros. & Co., Messina; Cassia, 20 cs. L. R. Miller & Hamilton, Hongkong; Eucalyptus, 140 cs. A. Gibbs & Son, Sydney; Iris, Red, 3 cs. Orbis Products Trading Co., Malaga; Lemon, 20 ¼ cs. A. Christina, Messina; 100 ½ cs. A. Gibbs & Co., Messina; 100 cs. National Aniline & Co., Messina; 100 cs. National Aniline & Chemical Co. 250 ¼ cs., 25 ½ cs. Heidelbach, Ikelheimer & Co., Messina; 500 ½ cs. Baring Bros. & Co., Messina; 20 ¼ cs. Baring Bros. & Co., Messina; Limes, 6 cs. Dodge & Olcott Co., Central American Ortange, 60 cs. Caraval & Co., Vera Cruz; 9 cs. Brown Bros. & Co., Vera Cruz; 9 cs. Brown Bros. & Co., Vera Cruz; 9 cs. Brown Bros. & Co., Vera Cruz; 10 cs. Brown Bros. & Co., Restina; Rosemary, 3 cs. Brown Bros. & Co., Kessina; Rosemary, 3 cs. Brown Bros. & Co., Messina; Assemary, 3 cs. St. National Aniline & Chemical Co., Malaga; Valerian, 1 cs. Brown Bros. & Co., Messina; 20 cs. National Aniline & Chemical Co., Malaga; Thyme, 4 csls. National Aniline & Chemical Co., Malaga; Thyme, 4 csls. National City Bank of N. Y., Smyrna; 20 cs. National City Bank of N. Y., Smyrna;

t cs. Brown Bros. & Co., London
OPIUM—18 cs. Pandaleon Bros., Smyrna; 21
cs. National City Bank of N. Y., Smyrna; 24
cs. Hills Bros. & Co., Smyrna; 12 cs. McKesson & Robbins, Smyrna; 25 cs. Brown Bros. & Co., Smyrna
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the demand for the acid in making munitions of war. The prices of potash salts were so exorbitant as to

prohibit their use for fertilizers. Purchases were made in Europe, outside of Germany, and in the Orient and Africa where some stocks bought from Germany before the war were found. The production of potash in the United States in 1917 was 32,573 tons, and in 1918 it amounted to 52,135 tons. This is nearly one quarter the amount consumed annually in this country before the war. Complete tables of fertilizer prices from month to month are given in the pamphlet.

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